



**QUALITY EQUIPMENT  
DISTRIBUTORS, INC.**

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**CALIBRATIONS AND REPAIR IN-HOUSE OR ON-SITE**

# **NDT PRODUCTS CATALOG**

## **NOVEMBER 2024**



**RADIOGRAPHY**



**MAGNETIC PARTICLE**



**LIQUID PENETRANT**



**BLACKLIGHTS (UV-A)**



**ULTRASONIC**



**VISUAL**



**LEAK DETECTION**



**HARDNESS TESTING**

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## **DISTRIBUTION CENTERS**

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## **QUALITY**

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"As a business, Quality Equipment Distributors (QED) is committed to excellence by providing superior customer service and support through the sale of QUALITY products to the Non-Destructive Testing industry. This commitment is rooted in the ongoing effort to involve our employees and partner with our suppliers; to continually improve our processes to meet the needs and requirements of our customers."

***Certificate is Available for Download on our Website***

## **RETURN POLICY**

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Products may only be returned with QED's authorization and must be in good working condition, with complete identification, shipped freight prepaid and returned to the Distribution Center from which they were shipped or picked up. The price on the original invoice will be the basis for credit for any authorized return. QED may impose a 25% restocking fee as a condition of accepting a return. Custom-built products may not be returned.

Prior to returning any Product, Customer must first obtain a Return Material Authorization (RMA) from QED and include that RMA number on the packing slip for returned Product. Product must be returned within 30 days after the RMA is issued. QED may refuse to accept the return of Products for which Customer has not provided an RMA number or for which the RMA number was issued more than 30 days prior to the return.

Except where Products are defective, returns must be in clean, unopened, factory packaging, in unmarked condition. In the case of cardboard box packaging, the seal must not be broken.

Returned Product must include all items originally packaged with or accompanying Products. In all instances, when returning Products, original paperwork, with invoice/receipt information must be supplied with return.

QED reserves the right to inspect and require proof of the defect prior to accepting returns.

# RADIOGRAPHY

## RADIOGRAPHIC AIDS

### FILM VIEWING/ MEASURING DEVICES

#### LED Film Viewers

#### QED Film Viewers

► **A-Series** Film Viewers Include: Selected Film Viewer, Power Supply, Foot Pedal, Instruction Manual, Test Report, Rugged Aluminum Carrying Case and 1 Year Warranty

► **QVL-Series** Film Viewers Include: Selected Film Viewer with Adjustable Handle and Mounting Brackets, Power Supply, Electronic Masking, Foot Pedal, Instruction Manual, Test Report and 5 Year Warranty

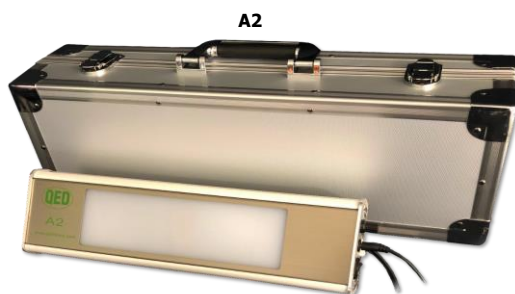


*\*Viewer pictured above has underwent Anti-Corrosion Treatment. See Service Section for More Information\**

Model	Window Size	Luminance Cd/m <sup>2</sup>	Max Viewing Density	Masking	Warranty	Price
A2	2.5" x 8"	≥ 110,000	4.1	N/A	1 Year Parts	Call for Pricing
A8L	3" x 15.7"					Call for Pricing
QVL8	3.25" x 8"	120,000	4.1	Electronic	5 Year Parts	Call for Pricing
QVL17	3.75" x 15.75"					Call for Pricing

#### A-Series

**A2  
&  
A8L**



#### QVL-Series

**QVL8  
&  
QVL17**



*All QVL-Series Viewers Standardly Include an Adjustable Handle, Mounting Brackets and Electronic Masking*



#### QED Built-In Densitometer Option

In addition to having all of the same advantages of the QVL8 & QVL17, The QVL8-D & QVL17-D come with a built-in densitometer, which has the following features:

Model	Density	Accuracy	Resolution	Aperture	Price
QVL8-D	0.00 - 5.00	±0.03	± 0.01	3mm	Call for Pricing
QVL17-D					Call for Pricing



QVL8-D



QVL17-D

## LCNDT LED Film Viewers

LCNDT founded in 1992, is a specialized supplier of NDT equipments, engineering, and trade. In 2008, LCNDT introduced what could possibly be the world's first industrial film viewer, the FV-2008, utilizing LED as its light source, marking the beginning of its export trade. In the subsequent years, LCNDT successively launched products such as FV-2009, FV-2010, and FV-2014.

**Viewer's Include:** Selected Film Viewer, Either External or Electronic Mask Option, Foot Pedal, Instruction Manual, Test Report, Warranty Card and Carrying Bag (Depending upon Model)



## Standard Film Viewers

Model	Window Size	Luminance Cd/m <sup>2</sup>	Max Viewing Density	Masking	Warranty	Price
<b>FV-2008 Plus</b>	3.2" x 8.7"	300,000	4.3	Electronic	<b>5 Year Parts</b>	Call for Pricing
<b>FV-2009 Plus</b>	2.5" x 8"	120,000	4.1	1.8" x 6"		Call for Pricing
<b>FV-2010 Plus</b>	4" x 15.8"	120,000	4.1	Electronic		Call for Pricing
<b>FV-2014</b>	13" x 16.1"	≥ 100,000	≤ 4.0	Electronic	<b>2 Year Parts</b>	Call for Pricing
<b>FV-2014-IRIS</b>	Main - 14" x 17"	≥ 100,000	≤ 4.0	Electronic		Call for Pricing
	Iris - Ø 4"	≥ 280,000	≤ 4.4	Adj. Ø 0.2" -4"		Call for Pricing
<b>FV-2018-IRIS</b>	Ø 4"	300,000	4.5	Adj. Ø 0.2" -4"		Call for Pricing

FV-2008 Plus



FV-2009 Plus



FV-2010 Plus



FV-2014



FV-2014-IRIS



FV-2018-IRIS



## LCNDT Built-In Densitometer Option

In addition to having all of the same advantages of the FV-2009/10 Plus, The FV-2009/10-T Plus comes with a built-in densitometer, which has the following features:

Model	Density	Accuracy	Resolution	Aperture	Price
FV-2009T Plus	0.00 - 5.00	± 0.03	± 0.01	3mm	Call for Pricing
FV-2010T Plus					Call for Pricing

FV-2009T Plus



FV-2010T Plus



*Est. 1956***ESECO**  
*Speedmaster***Densitometers**

► The Speedmaster **SM-10T** Digital Transmission Densitometers are designed to meet the need for an accurate and affordably priced instrument to measure any NDT x-ray, or processor control test films. The rugged durability, minimal drift, and no warm-up time provide fast dependable readings.

► The Speedmaster "Pocket Pal" **SM-12** has been designed to meet industry's needs for a small portable densitometer. No separate light source is required, just insert the film (3" film measurement depth), align the area to be read, and press a button.

► The Speedmaster **SM-14** Digital Densitometer is designed to meet the need for an accurate and affordably priced instrument to measure any film directly from a viewer. With the film on your viewer, just place the SM-14's "Easy Read" probe over the area to be read then push the read button.

Part Number	Model	Density	Accuracy	Resolution	Aperture	Price
5009	SM-10T	0.00 - 5.00	± 0.02	± 0.01	2mm	Call for Pricing
5012	SM-12	0.00 - 4.00			3mm	Call for Pricing
5014	SM-14				Call for Pricing	

**SM-10T****SM-12****SM-14****LCNDT**

► The LCNDT **DT-100** is a robust, easy-to-use portable digital densitometer for measuring the transmission density of x-ray film. Simply place the probe on the film where the reading is required, and the reading appears on the 4-digit LCD screen with a white light illuminated display.

► The **DT-200** portable densitometer is a robust, easy to use, portable densitometer with a separate probe for measuring the density of X-ray film.

► The **DT-300 Plus** is a robust and easy to use tabletop densitometer for measuring black and white transmission x-ray film. This unit provides highly accurate and repeatable measurements of film with densities up to 5.0D, and its high luminance spot light provides more subtlety than can be seen by the naked eye. Designed to be used in darkrooms, laboratories and offices, the DT-300 is truly a powerful unit that provides easy measurement of film anywhere.

Model	Density	Accuracy	Resolution	Aperture	Price
DT-100	0.00 - 5.00	± 0.03	± 0.01	3mm	Call for Pricing
DT-200					Call for Pricing
DT-300 Plus		± 0.02		1, 2 and 3mm	Call for Pricing

**DT-100****DT-200****DT-300 Plus****NDT Density Step Tablets**

Density Step Tablets, also called Density Film Strips, are an authenticated film strip tablet which are used for revising densitometers that are applied to measure X-ray and ray penetrating densities.

Manufacturer	Part Number	Number of Steps	Density Range	Price
<b>ESECO</b>	5005	5	0.5 thru > 4.0	Call for Pricing
	5004	21	0.15 thru > 5.0	Call for Pricing
<b>AGFA</b>	3UEPB	14	< 0.20 thru > 4.0	Call for Pricing
<b>Carestream</b>	1842137	17		Call for Pricing

**5005****5004****3UEPB****1842137**



## FILM MARKERS

### Lead Numbers and Letters

Precision lead numbers and letters are clean with sharp smooth edges, and produce clear, well defined images. All types shown below are available in letters A - Z, and numbers 0 - 9.

Designed to hold both numbers and letters. These lead number cases are made of ABS high impact plastic and contain a polyethylene sponge inside the cover which prevents accidental mixing of numbers and letters when the cover is closed.



Brand	Style	Size	Length	Thickness	Quantity / Pack	Price
South Manufacturing	Deep V	1/4 "	.300"	.100"	100	Call for Pricing
	Flat Face		.322"	.050"		Call for Pricing
	Deep V	3/8 "	.416"	.100"	50	Call for Pricing
	Flat Face		.419"	.065"	100	Call for Pricing
	Deep V	1/2 "	.504"	.140"	50	Call for Pricing
	Flat Face		.498"	.075"	100	Call for Pricing
QED	High Energy	3/4 "	.820"	.250"	Each	Call for Pricing
	Flat Face	1/4 "	.315"	.056"	100	Call for Pricing

Item	Description	Price
LL-CASE-RED	Lead Letter and Number Case, 38 Compartment, Red	Call for Pricing

### ID Printer (Film Flasher)

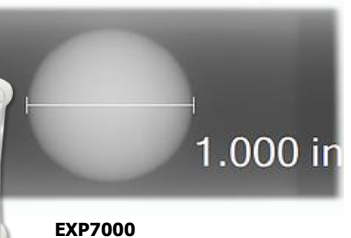
Item	Description	Price
17104	WOLF Manual ID Printer	Call for Pricing

### 1" Reference Standard

Like magic... 1" reference ball attaches itself to any ferromagnetic material, making a radiographers life just a little easier. The ball can be used as a reference for measuring pipe wall.

For accurate measurement, the ball must be put as near as possible to the exact side of the pipe parallel to the image media so that the enlargement of the pipe wall is the same as that of the ball.

If the comparator or ball is not touching the pipe because of insulation, aim the source at the center of the space between the two. This will help insure an equal amount of enlargement to the ball and the pipe wall. (Think of how the source side of an elliptical 2" weld is distorted more than the film side).



Item	Description	Price
SP*001218	1" OD Non-Magnetic Reference Ball (Includes Certificate of Conformance)	Call for Pricing
SP*001201	1" OD MAGNETIC Reference Ball (Includes Certificate of Conformance)	Call for Pricing
EXP7000	Exposure 1" Measurement Reference Ball, Includes a unique serial number and certificate of conformance (±0.0025" Standard Tolerance)	Call for Pricing

## IMAGE QUALITY INDICATORS (IQIs)

### Plaque Type Penetrameters

Ray-Check Plaque Type Penetrameters rigidly conform to and exceed requirements of each code and MIL-spec. Lead figures identifying the IQI size and in the case of some MIL specs, the material, are affixed to the IQI. Each IQI is chemically etched identifying the material and specification.

Sharp, smooth edges with accurate, perfectly spaced drilled and reamed holes, ultrasonically cleaned, give the technician every advantage in obtaining clear, well defined images on the radiograph. All IQI's are accompanied by a manufacturer certificate of conformity. Ray-Check's quality control system complies with ISO 9001:2015 (replaces MIL-I-45208A) and ANSI-NCSS-Z540 (replaces MIL-STD-45662-A) and is traceable to the National Institute of Standards and Technology (NIST).

**RAY-CHECK**  
MANUFACTURING, INC.



### Additional IQI Options


Item	Description	Price
RCM-SC-PIQI	Ray-Check Mfg. Serialize and Calibrate Plaque Type IQI's	Call for Pricing
RCM-SC-RPIQI	Ray-Check Mfg. Serialize and Calibrate <b>(Customer Returned)</b> Plaque Type IQI's	Call for Pricing
RCM-SC-WIQI	Ray-Check Mfg. Serialize and Calibrate Wire Type IQI's	Call for Pricing
RCM-SC-PIQI-SA25	Ray-Check Mfg. Serialize and Calibrate Plaque Type IQI's, <b>25</b> Piece Set A	Call for Pricing
RCM-SC-PIQI-SA28	Ray-Check Mfg. Serialize and Calibrate Plaque Type IQI's, <b>28</b> Piece Set A	Call for Pricing
RCM-SC-PIQI-SB11	Ray-Check Mfg. Serialize and Calibrate Plaque Type IQI's, <b>11</b> Piece Set B	Call for Pricing
RCM-E-IQI	Ray-Check Mfg. Encapsulate Plaque Type IQI's	Call for Pricing
RCM-SC-MS	Ray-Check Mfg. Serialize and Calibrate Mounting Blocks or Shims	Call for Pricing
RCM-SC-RMS	Ray-Check Mfg. Serialize and Calibrate <b>(Customer Returned)</b> Mounting Blocks or Shims	Call for Pricing
RCM-WC-SETA	Ray-Check Mfg. Wood Case for Set A Plaque Type IQI's	Call for Pricing
RCM-WC-SETB	Ray-Check Mfg. Wood Case for Set B Plaque Type IQI's	

\*Call for Pricing on Wood Case for Encapsulated IQI's.



**Plaque Type Penetrameters - IQI Sets - Includes Wooden Case**

Code	SET	IQI Quantity	Sizes Included
<b>ASME-SE-1025</b>	<b>A</b>	25 Piece	#5, #6, (#7 or #8), #9, #10, #11, #12, #13, #15, #16, #17, #18, #20, #22, #25, #27, #30, #32, #35, #37, #40, #42, #45, #47, #50
<b>ASTM-E-1025</b>	<b>B</b>	11 Piece	#55, #60, #65, #70, #75, #80, #90, #100, #120, #140, #160
<b>NAVSEA/271</b>	<b>A</b>	28 Piece	.25, .30, .35, .40, .45, .50, .55, .60, .65, .70, .75, .80, .85, .90, .95, 1.0, 1.1, 1.2, 1.3, 1.5, 1.6, 1.7, 1.8, 2.0, 2.1, 2.2, 2.3, 2.5
	<b>B</b>	11 Piece	2.7, 3.0, 3.2, 3.5, 3.7, 4.0, 4.5, 5.0, 6.0, 7.0, 8.0
<b>ASTM-E-1742</b>	<b>A</b>	25 Piece	.25, .31, .37, .43, .50, .56, .62, .68, .75, .81, .87, .93, 1.0, 1.1, 1.2, 1.3, 1.5, 1.6, 1.7, 1.8, 2.0, 2.1, 2.2, 2.3, 2.5
	<b>B</b>	11 Piece	2.7, 3.0, 3.2, 3.5, 3.7, 4.0, 4.5, 5.0, 6.0, 7.0, 8.0

	Material	SET	Price
	Steel (1018), Stainless Steel (304), Aluminum (6061)	<b>A</b>	Call for Pricing
		<b>B</b>	Call for Pricing
	Aluminum 2014, 2024, 2219, 7075, Aluminum-Bronze, Brass, Copper, Cupro-Nickel, Inconel 600, Magnesium AZ 31 & ZK60, Monel 400, Nickel, Phosphor-Bronze	<b>A</b>	Call for Pricing
		<b>B</b>	Call for Pricing
	Titanium, Cobalt, Hastelloy C, Hastelloy X, Inconel 625, Inconel 718, Zirconium	<b>A</b>	Call for Pricing
		<b>B</b>	Call for Pricing

**Plaque Type Penetrameters - Individual IQI's**

Specification	Size	Dimensions Length x Width	Material	Price
<b>ASME-SE-1025</b>	#5 thru #20	1 1/2" x 1/2"	Steel (1018)	Call for Pricing
	#22 thru #50		Stainless Steel (304)	Call for Pricing
	#55 thru #100	2 1/4" x 1"	Aluminum (6061)	Call for Pricing
	#110 thru #160			Call for Pricing
	#5 thru #20	1 1/2" x 1/2"	Aluminum (2014, 2024 Copper	Call for Pricing
	#22 thru #50		2219 and 7075) Cupro-Nickel	Call for Pricing
	#55 thru #100	2 1/4" x 1"	Aluminum-Bronze Inconel 600	Call for Pricing
	#110 thru #160		Brass Magnesium AZ 31	Call for Pricing
	#5 thru #20	1 1/2" x 1/2"	Cobalt (Haynes 25) Inconel 625	Call for Pricing
	#22 thru #50		Cobalt (Haynes 188) Inconel 718	Call for Pricing
	#55 thru #160	2 1/4" x 1"	Hastelloy C Plastic	Call for Pricing
	#170 thru #400		Hastelloy X Nylon	Call for Pricing
<b>ASTM-E-1025</b> 	#5 thru #20	1 1/2" x 1/2"	Steel (1018)	Call for Pricing
	#22 thru #50		Stainless Steel (304)	Call for Pricing
	#55 thru #100	2 1/4" x 1"	Aluminum (6061)	Call for Pricing
	#110 thru #160			Call for Pricing
	#5 thru #20	1 1/2" x 1/2"	Aluminum (2014, 2024 Copper	Call for Pricing
	#22 thru #50		2219 and 7075) Cupro-Nickel	Call for Pricing
	#55 thru #100	2 1/4" x 1"	Aluminum-Bronze Inconel 600	Call for Pricing
	#110 thru #160		Brass Magnesium AZ 31	Call for Pricing
	#5 thru #20	1 1/2" x 1/2"	Cobalt (Haynes 25) Inconel 625	Call for Pricing
	#22 thru #50		Cobalt (Haynes 188) Inconel 718	Call for Pricing
	#55 thru #160	2 1/4" x 1"	Hastelloy C Plastic	Call for Pricing
	#170 thru #400		Hastelloy X Nylon	Call for Pricing
<b>NAVSEA/271</b>	.01 thru 1.0	1 1/2" x 1/2"	Steel (1018)	Call for Pricing
	1.1 thru 2.5		Stainless Steel (304)	Call for Pricing
	2.7 thru 5.0	2 1/4" x 1"	Aluminum (6061)	Call for Pricing
	5.2 thru 8.0			Call for Pricing
	.01 thru 1.0	1 1/2" x 1/2"	Aluminum (2014, 2024 Copper	Call for Pricing
	1.1 thru 2.5		2219 and 7075) Cupro-Nickel	Call for Pricing
	2.7 thru 5.0	2 1/4" x 1"	Aluminum-Bronze Inconel 600	Call for Pricing
	5.2 thru 8.0		Brass Magnesium AZ 31	Call for Pricing
	.01 thru 1.0	1 1/2" x 1/2"	Cobalt (Haynes 25) Inconel 625	Call for Pricing
	1.1 thru 2.5		Cobalt (Haynes 188) Inconel 718	Call for Pricing
	2.7 thru 8.0	2 1/4" x 1"	Hastelloy C Plastic	Call for Pricing
	8.5 thru 20.0		Hastelloy X Nylon	Call for Pricing
<b>ASTM-E-1742</b> 	.01 thru 1.0	2" x 1/2"	Steel (1018)	Call for Pricing
	1.1 thru 2.5		Stainless Steel (304)	Call for Pricing
	2.7 thru 5.0	2.850" x 1"	Aluminum (6061)	Call for Pricing
	5.2 thru 8.0			Call for Pricing
	.01 thru 1.0	2" x 1/2"	Aluminum (2014, 2024 Copper	Call for Pricing
	1.1 thru 2.5		2219 and 7075) Cupro-Nickel	Call for Pricing
	2.7 thru 5.0	2.850" x 1"	Aluminum-Bronze Inconel 600	Call for Pricing
	5.2 thru 8.0		Brass Magnesium AZ 31	Call for Pricing
	.01 thru 1.0	2" x 1/2"	Cobalt (Haynes 25) Inconel 625	Call for Pricing
	1.1 thru 2.5		Cobalt (Haynes 188) Inconel 718	Call for Pricing
	2.7 thru 8.0	2.850" x 1"	Hastelloy C Plastic	Call for Pricing
	8.5 thru 20.0		Hastelloy X Nylon	Call for Pricing

*\*Per ASTM-E-1742, IQI's under .25" will be marked with the requested size but will have the same thickness and hole sizes as a .25" IQI. If true 2% thickness IQI's are required for sizes under .25", Call for pricing on Pratt & Whitney IQI's.*

## Penetrameter Shims and Mounting Blocks

### Shims - for ASTM-E-1025 or NAVSEA/271 IQIs

Some codes require that shims be used under penetrameters to compensate for thickness of a backing ring or weld reinforcement. Shims are supplied in the same materials as penetrameters. They are available in sizes 0.005" thru 1" thick. Material and size identification indicating actual thickness is marked on each shim.

Shims are ordered individually. You specify a specific thickness up to three decimal places within the ranges listed below:



Specification	Length x Width x T	Material	Price per Thickness (T)			
			.005 - .05"	.06 - .25"	.26 - .50"	.51 - 1.0"
ASTM-E-1025 or NAVSEA/271	Shim  3/4" x 2"  <i>These dimensions allow at least 1/8" clearance on each side of the penetrometer</i>	Steel (1018)	Call for Pricing	Call for Pricing	Call for Pricing	Call for Pricing
		Aluminum (6061)	Call for Pricing	Call for Pricing	Call for Pricing	Call for Pricing
		Magnesium AZ 31 & ZK 60	Call for Pricing	Call for Pricing	Call for Pricing	Call for Pricing
		Aluminum 2014, 2024, 2219, 7075	Call for Pricing	Call for Pricing	Call for Pricing	Call for Pricing
		Stainless Steel (304)	Call for Pricing	Call for Pricing	Call for Pricing	Call for Pricing
		Copper, Brass, Alum-Bronze	Call for Pricing	Call for Pricing	Call for Pricing	Call for Pricing
		Inconel 600, Cu-Ni & Phos-Brnz	Call for Pricing	Call for Pricing	Call for Pricing	Call for Pricing
		Nickel, Monel, Hast X & C, Monel	Call for Pricing	Call for Pricing	Call for Pricing	Call for Pricing
		Waspalloy (Up to .375)	Call for Pricing	Call for Pricing	Call for Pricing	N/A
		Titanium, Inconel 625 or 718, Zirconium	Call for Pricing	Call for Pricing	Call for Pricing	Call for Pricing
		Cobalt (Haynes 25 or 188)	Call for Pricing	Call for Pricing	Call for Pricing	Call for Pricing

### Mounting Blocks - for ASTM-E-1742 IQIs

Mounting blocks are used when it is impractical to place the IQI directly on the object being radiographed. Most codes specify that a mounting block of the same material and thickness be placed, with the IQI, adjacent to the part in such a manner that it will show clearly on the radiograph. Standard mounting blocks are supplied in sizes corresponding with ASTM-E-1742 IQI sizes.



Specification	Length x Width x T	Material	Price per Thickness (T)			
			.005 - .50"	.51 - 1.0"	1.1 - 1.5"	1.6 - 2.5"
ASTM-E-1742	Mounting Block  1" x 2 1/4"  <i>These dimensions allow at least 1/8" clearance on each side of the penetrometer</i>	Steel (1018)	Call for Pricing	Call for Pricing	Call for Pricing	Call for Pricing
		Aluminum (6061)	Call for Pricing	Call for Pricing	Call for Pricing	Call for Pricing
		Magnesium AZ 31 & ZK 60	Call for Pricing	Call for Pricing	Call for Pricing	Call for Pricing
		Aluminum 2014, 2024, 2219, 7075	Call for Pricing	Call for Pricing	Call for Pricing	Call for Pricing
		Stainless Steel (304)	Call for Pricing	Call for Pricing	Call for Pricing	Call for Pricing
		Copper, Brass, Alum-Bronze	Call for Pricing	Call for Pricing	Call for Pricing	Call for Pricing
		Inconel 600, Cu-Ni & Phos-Brnz	Call for Pricing	Call for Pricing	Call for Pricing	Call for Pricing
		Nickel, Monel, Hast X & C, Inconel 625 & 718	Call for Pricing	Call for Pricing	Call for Pricing	Call for Pricing
		Waspalloy (Up to .375)	Call for Pricing	N/A		
		Titanium, Zirconium	Call for Pricing	Call for Pricing	Call for Pricing	Call for Pricing
		Cobalt (Alloy Haynes 188)	Call for Pricing	Call for Pricing	Call for Pricing	Call for Pricing

## Wire Type IQI's

The only IQI acceptable by API 1104 (20th Edition) and accepted as an alternative to plaque type IQI's by ASME Section V and AWS, these Wire Type IQI's are encapsulated in vinyl for durability. Available in 4 sizes (Sets A, B, C and D) and inspected with instruments calibrated and traceable to the National Institute of Standards and Technology (NIST).

Each size IQI covers a range of thicknesses for which it is used, based on a standard 2T level of inspection.

IQI SIZE	THICKNESS RANGE
Set A	.25" thru .75"
Set B	.75" thru 1.7"
Set C	1.7" thru 4.0"
Set D	4.0" thru 10.0"



TABLE 1 Wire IQI Sizes and Wire Identity Numbers

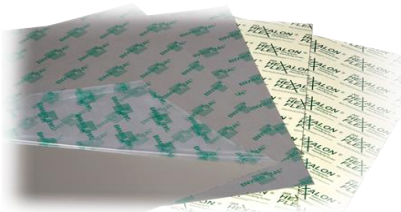

SET A		SET B	
Wire Diameter in. (mm)	Wire Identity	Wire Diameter in. (mm)	Wire Identity
0.0032 (0.08) <sup>A</sup>	1	0.010 (0.25)	6
0.004 (0.1)	2	0.013 (0.33)	7
0.005 (0.13)	3	0.016 (0.4)	8
0.0063 (0.16)	4	0.020 (0.51)	9
0.008 (0.2)	5	0.025 (0.64)	10
0.010 (0.25)	6	0.032 (0.81)	11
SET C		SET D	
Wire Diameter in. (mm)	Wire Identity	Wire Diameter in. (mm)	Wire Identity
0.032 (0.81)	11	0.10 (2.5)	16
0.040 (1.02)	12	0.126 (3.2)	17
0.050 (1.27)	13	0.160 (4.06)	18
0.063 (1.6)	14	0.20 (5.1)	19
0.080 (2.03)	15	0.25 (6.4)	20
0.100 (2.5)	16	0.32 (8)	21

Brand	Specification	Set	Wire Length	Material	Price	
QED <i>Includes Certification with Batch Number</i>	ASTM-E-747	A	2"	Stainless Steel	Call for Pricing	
		B			Call for Pricing	
		C			Call for Pricing	
Ray-Check <i>IQI's are standardly accompanied by a Manufacturer Certificate of Conformance</i>		A	2"	Stainless Steel, Aluminum or Copper	Call for Pricing	
		B			Call for Pricing	
		C			Call for Pricing	
		D			Call for Pricing	
		C	3"		Call for Pricing	
		C	4"		Call for Pricing	
		D			Call for Pricing	
		A	2"	Titanium	Call for Pricing	
		B			Call for Pricing	
		Serialization & Calibration are Available for an Additional Cost - P/N: RCM-SC-WIQI	A	2"	Inconel 600	Call for Pricing
			B			Call for Pricing

**FILM HOLDERS****Hexalon (FLEX & ULTRA) Lead Intensifying Cut Screens**

Hexalon is the popular industry standard lead intensifying screen when performing radiographic testing. The FLEX screen includes a proprietary fiber 90 backing for greater flex and durability. The ULTRA screen is the best production screen available and offers the greatest flexibility and resistance to crimping than any other screen on the market.



Item	Size	Thickness	FLEX Price	ULTRA Price
<b>FLEX</b> 	70mm X 10"	.005"	Call for Pricing	Call for Pricing
		.010"	Call for Pricing	Call for Pricing
	70mm X 17"	.005"	Call for Pricing	Call for Pricing
		.010"	Call for Pricing	Call for Pricing
	3.5" X 10"	.005"	Call for Pricing	Call for Pricing
		.010"	Call for Pricing	Call for Pricing
	3.5" X 17"	.005"	Call for Pricing	Call for Pricing
		.010"	Call for Pricing	Call for Pricing
	4.5" X 10"	.005"	Call for Pricing	Call for Pricing
		.010"	Call for Pricing	Call for Pricing
	4.5" X 17"	.005"	Call for Pricing	Call for Pricing
		.010"	Call for Pricing	Call for Pricing
	5" X 7"	.005"	Call for Pricing	Call for Pricing
		.010"	Call for Pricing	Call for Pricing
<b>ULTRA</b> 	6" x 10"	.005"	Call for Pricing	Call for Pricing
		.010"	Call for Pricing	Call for Pricing
	6" x 17"	.005"	Call for Pricing	Call for Pricing
		.010"	Call for Pricing	Call for Pricing
	7" X 17"	.005"	Call for Pricing	Call for Pricing
		.010"	Call for Pricing	Call for Pricing
	8" X 10"	.005"	Call for Pricing	Call for Pricing
		.010"	Call for Pricing	Call for Pricing
	10" X 12"	.005"	Call for Pricing	Call for Pricing
		.010"	Call for Pricing	Call for Pricing
	11" X 14"	.005"	Call for Pricing	Call for Pricing
		.010"	Call for Pricing	Call for Pricing
	14" X 17"	.005"	Call for Pricing	Call for Pricing
		.010"	Call for Pricing	Call for Pricing

**Film Cassettes**

This completely flexible film holder (cassette) is easily molded around irregular shapes to ensure proper contact necessary in direct exposure technique. Made from vinyl treated paper with all edges reinforced with tape for durability, this rugged cassette is available in various sizes. **Black Only.**

Item	Color	Style	Size	Price
SVFC70MMX10	<b>Black</b>	<b>Flexible</b> 	70mm x 10"	Call for Pricing
SVFC70MMX17			70mm x 17"	Call for Pricing
SVFC3.5X10			3.5" x 10"	Call for Pricing
SVFC3.5X17			3.5" x 17"	Call for Pricing
SVFC4.5X10			4.5" x 10"	Call for Pricing
SVFC4.5X17			4.5" x 17"	Call for Pricing
SVFC5X7			5" x 7"	Call for Pricing
SVFC6X10			6" x 10"	Call for Pricing
SVFC6X17			6" x 17"	Call for Pricing
SVFC7X17			7" x 17"	Call for Pricing
SVFC8X10			8" x 10"	Call for Pricing
SVFC14X17			14" x 17"	Call for Pricing

\*Custom sizes are available upon request

**Cloth Cassettes**

Tough, water resistant, and highly durable. Our cloth cassettes are made with the seam in the center, on the back cassette. One end of the cassettes is sealed with gaffers tape and the other includes a rubber band for easy opening and closing of the cassette.


Item	Color	Style	Size	Price
CFC70X10	<b>Black</b>	<b>Cloth</b> 	70mm x 10"	Call for Pricing
CFC70X17			70mm x 17"	Call for Pricing
CFC3.5X10			3.5" x 10"	Call for Pricing
CFC3.5X17			3.5" x 17"	Call for Pricing
CFC4.5X10			4.5" x 10"	Call for Pricing
CFC4.5X17			4.5" x 17"	Call for Pricing

\*Custom sizes are available upon request



Warren "Flexible" Type Film Holders: Outer Cover made of tough vinyl impregnated fiber stock but flexible enough to contour around shapes. Comes in two colors (specify when ordering) Blue or Black. Inner film envelope made of black shoe material for light tight protection.

*Also Available Upon Request - Ideal for Heavy Castings either the "Semi-Rigid" (Black) or "Rigid" (Red) Film Holders - Call for Pricing*

Item	Color	Style	Size	Price
WVFC70MMX10	Blue or Black	<b>Flexible</b> 	70mm x 10"	Call for Pricing
WVFC70MMX17			70mm x 17"	Call for Pricing
WVFC3.5X10			3.5" x 10"	Call for Pricing
WVFC3.5X17			3.5" x 17"	Call for Pricing
WVFC4.5X10			4.5" x 10"	Call for Pricing
WVFC4.5X17			4.5" x 17"	Call for Pricing
WVFC5X7			5" x 7"	Call for Pricing
WVFC7X17			7" x 17"	Call for Pricing
WVFC8X10			8" x 10"	Call for Pricing
WVFC10X12			10" x 12"	Call for Pricing
WVFC11X14			11" x 14"	Call for Pricing
WVFC14X17			14" x 17"	Call for Pricing

*\*Custom sizes are available upon request*

### Cloth Cassette Material

This product is constructed by bonding a sheet of neoprene rubber between two high grade duct cloths of the finest quality durable fabrics. The combination of our dual chain stitch construction and the rugged light-proof material makes a product that has proven reliable for many years.

Our belting material is available in 70mm, 3.5", 4.5", 5", 7" and 8" widths. **Black** only.



Item	Color	Size	Length	Price
BELTING-70MM-1	Black	2.75" (70mm)	1 Foot	Call for Pricing
BELTING-3.5-1		3.5"		Call for Pricing
BELTING-4.5-1		4.5"		Call for Pricing
BELTING-5-1		5"		Call for Pricing
BELTING-7-1		7"		Call for Pricing
BELTING-8-1		8"		Call for Pricing

*\*Cloth cassette rolls are typically sold in 150' lengths*



### Backing Material

Our .050" and .062" nylon backing is available in rolls, or cut to specified lengths with corners radiused. This flexible material will not buckle or deteriorate under normal use. Therefore, it can be used as support in new cassettes many times.

Item	Size	Thickness	Length	Price
BACKING-70MM.050	2.75" (70mm)	.050"	1 Foot	Call for Pricing
BACKING-70MM.062		.062"		Call for Pricing
BACKING-3.5.050	3.5"	.050"		Call for Pricing
BACKING-3.5.062		.062"		Call for Pricing
BACKING-4.5.050	4.5"	.050"		Call for Pricing
BACKING-4.5.062		.062"		Call for Pricing

### Hexalon (FLEX & ULTRA) Lead Intensifying Roll Stock

Hexalon is the popular industry standard lead intensifying screen when performing radiographic testing. The FLEX screen includes a proprietary fiber 90 backing for greater flex and durability. The ULTRA screen is the best production screen available and offers the greatest flexibility and resistance to crimping than any other screen on the market.

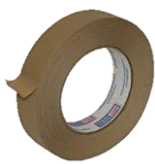


Roll Width	Length	Thickness	FLEX Price	ULTRA Price
<b>2.75" (70mm) Roll</b>	300'	.005"	Call for Pricing	Call for Pricing
	180'	.010"	Call for Pricing	Call for Pricing
<b>3.50" (90mm) Roll</b>	300'	.005"	Call for Pricing	Call for Pricing
	180'	.010"	Call for Pricing	Call for Pricing
<b>4.50" Roll</b>	300'	.005"	Call for Pricing	Call for Pricing
	180'	.010"	Call for Pricing	Call for Pricing
<b>17" Roll</b>	95'	.005"	Call for Pricing	Call for Pricing
	54'	.010"	Call for Pricing	Call for Pricing



**EXPOSURE AIDS****Industrial Tapes**

Item	Description	Size	UOM	Price
PM2	Intertape Tan Kraft Flatback Paper Tape	1" x 60 Yards	Case of 36	Call for Pricing
2060	3M Scotch Green Masking Tape			Call for Pricing
PC 600	Shurtape Silver Cloth Duct Tape		Case of 48	Call for Pricing
TAPE-GAFFERS-1	ProTapes Black Cloth Gaffers Tape	1" x 55 Yards	Roll	Call for Pricing
TAPE-GAFFERS-2		2" x 55 Yards		Call for Pricing



PM2



2060



TAPE-GAFFERS-2

**Paint Markers**

► Since the 1970's, Sakura has been developing markers and pens for use in industrial environments. Extensive research, development and user feedback have kept Sakura in the forefront of meeting the market demand for specific product performance in various industrial applications such as ship building, welding, HVAC, highway construction, aerospace, plumbing, automotive assembly, petrochemical, shipping and electronics.

► Markal Valve Action is a fast-drying liquid paint marker that provides long-lasting, wear- and weather-resistant marks that are safe for almost any surface. As the most versatile liquid paint marker in the world, the xylene-free paint reduces user health risks.

Manufacturer	Type	Available Color(s)	Tip Diameter	Temp. Rating	Price / Each	Price / Case
	Solid Marker <b>Original</b>	11 - White, Black, Blue, Red, Green, Purple, Orange, Yellow, Fl. Lemon, Fl. Orange and Fl. Pink	13mm	14 - 392 °F	Call for Pricing	#VALUE!
	SM <b>Low Temp.</b>	6 - White, Yellow, Red, Blue, Green and Black	13mm	-40 - 212 °F	Call for Pricing	#VALUE!
	SM <b>Low Temp. Slim</b>	5 - White, Yellow, Red, Blue and Black	10mm		Call for Pricing	#VALUE!
	SM <b>Low Corrosion</b>	4 - White, Black, Red and Yellow	13mm		Call for Pricing	#VALUE!
	Pen-Touch <b>Medium</b>	10 - White, Black, Yellow, Red, Purple, Green, Blue, Gold, Silver and Copper	2mm	41 - 104 °F	Call for Pricing	#VALUE!
	<b>Valve Action</b> <b>Low Corrosion</b>	18 - Brown, Purple, White, Yellow, Red, Black, Orange, Blue, Green, Gold, Light Green, Pink, Aluminum, Light Blue, Fl. Yellow, Fl. Green, Fl. Orange, Fl. Pink	3mm	-50 - 150°F	Call for Pricing	#VALUE!

**Cassette Holders**

Item	Description	Price
SP*001312	Nylon RT Clamp with Rubber Molded Tips, 9 1/2" Length x 5" Opening	Call for Pricing
PDLM1	Paddle magnets are made of a high-impact plastic with a circular ring magnet at one end and a 3" x 4" flap at the other end	Call for Pricing
SP*001085	1/4" Black Bungee Cord, 100' Roll	Call for Pricing



SP\*001312



PDLM1



SP\*001085

**Swivel Clamps and Source Sticks**

Item	Description	Price
SP*001793	2.5" Heavy Duty Stainless Steel Grip Head with "T" Top and 5/8" Socket	Call for Pricing
SP*001153	Swivel Clamp Holder	Call for Pricing
SP*001575	RT Jig - 11" C-Clamp with Welded Angle Iron and an 18" CS Rod Welded and Painted Black	Call for Pricing
SP*001268	18" Source Stick with Built-In Collimator Holder	Call for Pricing



SP\*001793



SP\*001153



SP\*001575



SP\*001268



**Contact Jigs**

Item	Description	Price
SP*001305	2" Contact Jig (Standard)	Call for Pricing
SP*001306	2" Fitting to Fitting Contact Jig	Call for Pricing
SP*001999	QED 2" Fitting to Fitting Contact Jig	Call for Pricing
SP*002000	QED 2" Contact Jig (Standard)	Call for Pricing



SP\*001305



SP\*001306



SP\*001999



SP\*002000

**Source Stands/Positioning Devices**

Item	Description	Price
SP*001577	RT Magnetic Source Stand with (3) 90lb pull magnets including handle and crossbar painted black	Call for Pricing
SP*001986	Aluminum Magnetic Source Stand with (2) 225lb pull magnets and a 18" x 5/8" rod	Call for Pricing
SP*001339	SPIDER (Source Positioning Device) Collapsible self centering device for short length pipes and vessels (Pipe ID Range 10" - 24")	Call for Pricing
SP*001082	Source Stand 8" x 10" Carbon Steel U-Channel Base with Threaded 5/8" Diameter x 36" Long Aluminum Rod	Call for Pricing

SP\*001577



SP\*001986



SP\*001339

SP\*001082

**Source Guide Tubes (QSA Global)**

Source Guide Tubes are flexible stainless-steel tubes with a protective polyvinyl covering. Available in both Standard (Yellow) and **EXTREME Condition** (Black) Styles. Standard length is 7 foot, additional sizes are available upon request.

**QSA GLOBAL**

Item	Compatible	Style	Type	Tip Diameter	Adaptor Needed for Source Projector	Price
1210LG	QSA Global (SENTINEL)	Standard (Yellow)  Temperature Rating 40°F – 120°F	Fixed Stop	Ø ½ Inch	1244 - Bayonet Adaptor required to connect to Source Projector	Call for Pricing
1220LG			Swivel End			Call for Pricing
1230			Extension	N/A		Call for Pricing
1210EXTLG		EXTREME Condition  Temperature Rating -65°F – 250+ °F	Fixed Stop	Ø ½ Inch		Call for Pricing
1220EXTLG			Swivel End			Call for Pricing
1230EXT			Extension	N/A		Call for Pricing



Type - Fixed Stop  
Standard & EXTREME (Pictured)



Type - Swivel End  
Standard (Pictured)



Type - Extension  
Standard (Pictured)

## Source Guide Tubes (SPEC)

Source Guide Tubes are flexible stainless-steel tubes with a protective polyvinyl covering. Available in both Standard (Yellow) and **EXTREME Condition** (Black) Styles. Standard length is 7 foot, additional sizes are available upon request.



Item	Compatible	Style	Type	Tip Diameter	Adaptor Needed for Source Projector	Price
1180LG	SPEC	Standard (Yellow) <i>Temperature Rating 40°F – 120°F</i>	Extension	Ø ½ Inch	<b>1236</b> - Quick Disconnect required to connect to Source Projector  <b>1236 Included</b>	<b>Call for Pricing</b>
1190LG			Fixed Stop			
1200LG			Swivel End			
1180EXTLG		<b>EXTREME Condition</b> <i>Temperature Rating -65°F – 250+°F</i>	Extension	Ø ½ Inch	<b>1236</b> - Quick Disconnect required to connect to Source Projector  <b>1236 Included</b>	<b>Call for Pricing</b>
1190EXTLG			Fixed Stop			
1200EXTLG			Swivel End			

## Source Tube Components, Attachments and Adapters

Item	Compatible	Description	Price
1244	QSA Global (SENTINEL)	Guide Tube Bayonet Adaptor for your SENTINEL Series Source Projector	<b>Call for Pricing</b>
1237		SENTINEL Threaded End Stop (¾"-10 Female Thread), Ø ½ Inch Tip	<b>Call for Pricing</b>
1243		J-Tube Adapter for QSA Global (SENTINEL) 1"-18M to ¾"-10M	<b>Call for Pricing</b>
1236	SPEC	Quick Disconnect (¾"-10 Female Thread) for your SPEC 150 Source Projector	<b>Call for Pricing</b>
1254		Rigid 18" Stainless Steel Source Tube	<b>Call for Pricing</b>
1255		Rigid 24" Stainless Steel Source Tube	<b>Call for Pricing</b>

\*Rigid Source Tubes can be used with QSA Global (SENTINEL) Source Guide Tubes when using a 1243 J-Tube Adapter



1244



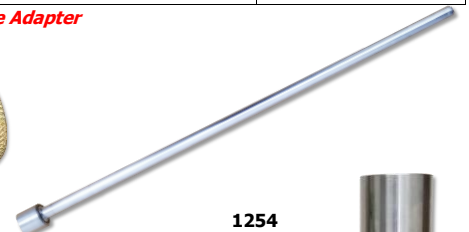
1237



1243



1236



1254

## Collimators

Collimators are manufactured with high grade Tungsten material. Side port collimators are available in either flat or slotted faces. Slotted face collimators offer easier and more stable securing during double wall exposure/single wall viewing techniques. Side port collimators are supplied with a thumb screw.



Item	Description	Dimensions - Weight	HVL (Ir192)	Degree	Guide Tube Selection	Price
Q-CO-60M-4.5	Mini Beam Collimator	1.50" Ø x 1.90" L - 1.75 lbs.	4.5	60°	Ø ½ Inch Tip or Smaller	<b>Call for Pricing</b>
1247	Side Port Collimator	2" Ø x 2.30" L - 4.25 lbs.	8	90°		<b>Call for Pricing</b>
1248	Panoramic Collimator	1.56" Ø x 3.50" L - 2 lbs.	4	360° x 40°	<b>SPEC</b> ¾"-10 UNC Male	<b>Call for Pricing</b>
1249		1.56" Ø x 4.75" L - 2.5 lbs.	8			<b>Call for Pricing</b>

\*Panoramic Collimators are manufactured to fit standard ¾"-10 UNC Male Source Tube Fittings (SPEC), Need 1243 J-Tube Adapter for connection to QSA Global (SENTINEL) Source Guide Tubes

## Gamma Remote Control Assemblies & Accessories

Gamma radiography control assemblies are used to move a radioisotope source assembly out of a gamma-ray source projector to the radiographic exposure position. When radiographic exposure is complete, the radiographer retracts the source assembly from the exposure position back to the secured shielded location of the gamma-ray source projector.

QED control assemblies feature a durable drive cable sheathed in either extreme condition or Ambient (Standard) conduits and attached to a new, robust hand crank. Our new hand crank consists of an aluminum handle assembly and hanger to minimize equipment damage and reduce unnecessary downtime. A unique ergonomic crank designed specifically for ease of operation reduces crank resistance by up to 50%, allowing for more productivity and less operator fatigue.



Item	Compatible	Description	Length	Price
QSA1120HS	QSA Global (SENTINEL)	Flexible Yellow High Speed Hand Crank Remote Controls	25 Foot	<b>Call for Pricing</b>
QSA1122HS			35 Foot	<b>Call for Pricing</b>
1577		Go-No-Go Gauge for QSA Global (SENTINEL) Drive Cable Connectors		<b>Call for Pricing</b>
SPEC1120HS	SPEC	Flexible Yellow High Speed Hand Crank Remote Controls	25 Foot	<b>Call for Pricing</b>
SPEC1122HS			35 Foot	<b>Call for Pricing</b>

**FILM STORAGE****Interleave Paper**

- QED film interleaf paper is acid-free and comes in four common film sizes.
- South Interleaves are produced using the alkaline paper making process and are available in most film sizes.



Brand	Item	Size	Color	UOM	Price
<b>QED</b>	IP4.5X10-200	4.5" x 10"	White	<b>Pack of 200</b>	Call for Pricing
	IP4.5X17-200	4.5" x 17"			Call for Pricing
	IP7X17-200	7" x 17"			Call for Pricing
	IP14X17-200	14" x 17"			Call for Pricing
<b>South Mfg.</b>	INT3.5X10-200	3.5" x 10"	Yellow		Call for Pricing
	INT3.5X17-200	3.5" x 17"			Call for Pricing
	INT5X7-200	5" X 7"			Call for Pricing
	INT8X10-200	8" X 10"			Call for Pricing
	INT10X12-200	10" X 12"			Call for Pricing
	INT11X14-200	11" X 14"			Call for Pricing

**Film Storage Envelopes**

High Grade 28 oz. and 32 oz. brownkraft exposed film storage envelopes. Available in both Unprinted and PRINTED. Printed envelopes are customized as per your company design or our standard layout. A one time set-up fee for all Printed Envelopes applies for the cost of the metal imprint plate.

Item (UNPRINTED)	Size	UOM	Image	Blank Envelope	Printed Envelope
E45X10	4.5" x 10"	Pack of 100 Case of 500		Call for Pricing Call for Pricing	Call for Pricing
E45X17	4.5" X 17"	Pack of 100 Case of 500		Call for Pricing Call for Pricing	Call for Pricing
ENV5X7	5" X 7"	Pack of 100 Case of 1,000		Call for Pricing Call for Pricing	N/A
E7X17	7" X 17"	Pack of 100 Case of 500		Call for Pricing Call for Pricing	Call for Pricing
ENV8X10	8" X 10"	Pack of 100 Case of 500		Call for Pricing Call for Pricing	Call for Pricing
E10X12	10" X 12"	Pack of 100 Case of 500		Call for Pricing Call for Pricing	N/A
ENV11X14	11" X 14"	Case of 500		Call for Pricing	
ENV14X17	14" X 17"	Pack of 100 Case of 500		Call for Pricing Call for Pricing	Call for Pricing

*\*Printed Envelopes have a unique item number specific to each Customer*

**Film Storage Boxes**

Item	Size	Number of Cell Dividers	Quantity	Price
S-70/25	<b>70mm</b> <i>Sold in Quantities of 10 Only</i>	25	10 Thru 190	Call for Pricing
			200 Thru 490	Call for Pricing
			500+	Call for Pricing
S-70/49	<b>70mm</b> <i>Sold in Quantities of 25 Only</i>	49	10 Thru 190	Call for Pricing
			200 Thru 490	Call for Pricing
			500+	Call for Pricing
S-70/100	<b>70mm</b> <i>Sold in Quantities of 25 Only</i>	100	25 Thru 190	Call for Pricing
			200 Thru 490	Call for Pricing
			500+	Call for Pricing
S-100/100	<b>100mm</b> <i>Sold in Quantities of 10 Only</i>	100	10 Thru 190	Call for Pricing
			200 Thru 490	Call for Pricing
			500+	Call for Pricing



S-70/49



S-70/100



S-100/100

# RADIATION SAFETY WARNING SIGNS & LABELS

## Radiation Signs

Our radiation signs, sun fast and sealed in two sheets of .016" vinyl, are manufactured in a variety of types. Our most popular are:

- DANGER – High Radiation Area
- CAUTION - Radiation Area Authorized Personnel Only

Available with Velcro for securing to a barrier rope or grommets on the corners of attachment to a flat surface.



Item	Sign Reads	Price
Radiation Signs	Danger - High Radiation Area Caution - Radiation Area Authorized Personnel Only	Call for Pricing

## Barricade Rope & Reel

- SP\*001212 - Sun-fast, non-conductive, and reusable, yellow/magenta polypropylene barricade rope is a safe and easy method for marking off radiation areas. Ideal for hanging Velcro secured signs on.
- RR - Made of high impact polyethylene with ABS handle and knob.

Item	Description	Price
SP*001212	Radiation Barricade Rope, 5/16" diameter x 1'	Call for Pricing
RR	13" Polyethylene Reel (holds both Barricade Rope and Tape)	Call for Pricing
SP*001261	Storage Wheel with Side-Mounted Handle Allowing you to Quickly Wind and Unwind Barricade Tape or Rope	Call for Pricing

*\*Barricade Rope is Sold in 600' Rolls*



DHRA-SIGN



CRA-SIGN



SP\*001212



RR



SP\*001261

## Barricade Tape

Yellow/magenta barricade tape is safe, economical, and an easy method of marking a large radiation area quickly. The nylon reinforced tape is sun-fast, non-conductive, and reusable. Available in the following:

Item	Size	Tensile Strength	Price
BT-3/4"	3/4" X 150 ft. Roll	100 lb.	Call for Pricing
BT-2"	2" X 150 ft. Roll	300 lb.	Call for Pricing
BT-3"	3" X 1000 ft. Roll	500 lb.	Call for Pricing

## Adhesive Signs & Cones

- Adhesive Backed Vinyl Signs - 7" x 10" made with Outdoor Durable Vinyl.

Item	Description	Price
H1418-AB	Caution Radiation Area Keep Out Sign, 7" x 10", Outdoor Durable Vinyl (Adhesive Backed)	Call for Pricing
H1402-AB	Caution High Radiation Area Sign, 7" x 10", Outdoor Durable Vinyl (Adhesive Backed)	Call for Pricing
SP*001252	Caution Radioactive Materials Sign, 7" x 10", Outdoor Durable Vinyl (Adhesive Backed)	Call for Pricing
OC-18	18" Orange Premium PVC Safety Cones - No Reflective Collar	Call for Pricing



BT-3"

BT-3/4" or BT-2"



H1418-AB



H1402-AB



SP\*001252



OC-18

## Transport Labels

Item	Description	UOM	Price
SP*001073	1 1/2" Diameter RQ Circle Labels	500 / Roll	Call for Pricing
SP*001074	4" x 4" Radioactive II D.O.T. Class 7 Hazard Labels		Call for Pricing
SP*001078	4" x 4" Radioactive III D.O.T. Class 7 Hazard Labels		Call for Pricing



SP\*001073



SP\*001074



SP\*001078



## PERSONAL DOSIMETRY

### Tracerco T402 Dose Rate Survey Meter

With a lightweight design and robust and reliable housing, the Tracerco T402 handheld radiation dose rate monitor measures x-ray and gamma-ray dose rate and peak dose exposure. The T402 responds quickly and has an extended range for measurements up to 100 mSv/h (10 rem/hr).

This versatile, rugged, and high-performance dose rate monitor is ideally suited for a range of applications such as oil and gas, mining, nuclear, medical, and environmental and life sciences. With peak dose rate memory for recording maximum exposure levels and easy-to-use controls with a backlight display, the T402 is the perfect companion when using your gamma-ray source projectors.

### Survey Meter, Rate Alarm and Pencil Type Dosimeter

Item	Description	Price
T402	Tracerco T402 Dose Rate (0-1000 mR/hr) Digital Numeric Display Survey Meter	Call for Pricing
ND-2000-AV	<b>Analog Version</b> Survey Meter 3 Range (0-1000, 0-100, 0-10 mR/hr)	Call for Pricing
ND-2000-DV	<b>Digital Version</b> Survey Meter 3 Range (0-1000, 0-100, 0-10 mR/hr)	
RA-500	NDS Survey Meter 500 mR/hr Audible Rate Alarm	Call for Pricing
4329	W138, Pencil Type Dosimeter, 0-200 mR	Call for Pricing



T402



ND-2000-AV



ND-2000-DV



RA-500



4329

### Dosimeter Chargers and Pouches

► 750-6 Piezoelectric Dosimeter Charger requires absolutely no batteries...ever! By pulling the trigger, a dosimeter is easily placed in or removed from the Charger. The clamping action automatically holds the dosimeter for you. Ideal for using in Field Operations.

► 909B Dosimeter Charger - Easier charging, viewing, dosimeter protection and improved accuracy... these are the biggest reasons that the 909B Dosimeter Charger is the best value on the market today!

Item	Description	Price
750-6	Pistol Grip Piezoelectric Dosimeter Charger	Call for Pricing
909B	Battery Powered Dosimeter Charger	Call for Pricing
SP*001221	Multi-Purpose Poly Holder, Fits Rate Alarms, Pencil Type Dosimeters & other Small Tools	Call for Pricing
RACASE	NDS Products Black Mesh Rate Alarm/Dosimeter Holder	Call for Pricing



750-6



909B



SP\*001221



RACASE

## DARKROOM PROCESSING AIDS

### Safelights

Item	Description	Price
SP*001535	18' <b>LED Rope Safelight</b> , Red (Lasts up to 50,000 hours); Easy to install; Hardware included	Call for Pricing
19198	The <b>Swivel Safelight</b> is perfect for direct spotlighting. This wall mounted unit swivels to any position. Easy to install via 2 keyholes, the Swivel Safelight includes a GBX Type filter, light bulb, and a 6' cord with a three prong plug.	Call for Pricing
SP*001674	24" Fixture and LED Tube Safelight (Lasts up to 50,000 hours)	Call for Pricing
SP*001675	24" LED Tube Safelight Only (Lasts up to 50,000 hours)	Call for Pricing



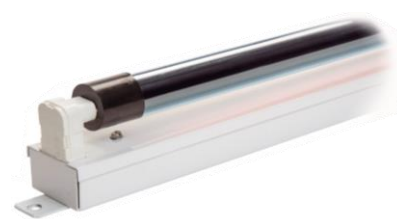
SP\*001535



19198



SP\*001675



SP\*001674



**WOLF Developing Hangers (Clip-Type)**

Clip-type hangers for tank development of sheet films. Four clips are attached to a stainless steel frame; the upper two are mounted on a bow string to keep the film taut. The interlock design of the clip results in accurate alignment of pin and hole and permits better washing in the clip areas. Larger sized have loop guides to hold the bow spring and top clips in line to maintain proper tension. Hangers hold two film - Made in the USA!

Item	Description	Price
16317-S	WOLF Industrial Developing Hanger, Two Film, Clip/Tension Type, Stainless Steel Construction, 4.5" x 10" with 3" Spacer	Call for Pricing
16319	WOLF Industrial Developing Hanger, Two Film, Clip/Tension Type, Stainless Steel Construction, 4.5" x 17"	

**Developing Reels and Rod**

- Developing Reels are made of durable ABS plastic, designed for the developing of 70mm roll film. Each Developing Reel will hold 13 feet of roll film.
- Developing Rod is constructed with a 24" x 3/4" PVC pipe to ensure minimum contamination of chemicals; not fancy, but effective.

Item	Description	Price
SP*001309	70mm Developing Reel	Call for Pricing
90MM-DR	90mm Developing Reel	Call for Pricing
100MM-DR	100mm Developing Reel	Call for Pricing
4.5"-DR	4.5" Developing Reel	Call for Pricing
ROD-PVC	Developing Rod, 24"L x 3/4" Diameter PVC	Call for Pricing

**Miscellaneous Darkroom Supplies**

► WMI Indicator-Stop Bath is a low odor acetic stop bath. Used in photographic processing to stop the action of a developer on a film. It helps to prolong the life of the fixer solution by reducing carry over of excess developer (alkaline) into the fixer (acidic) and to maintain the activity of the fixer. The indicator component contains a dye that is pH sensitive and changes color from yellow to purple to signal exhaustion.

► WMI Flo Wash 200 is a concentrated wetting agent used as a final step in processing to inhibit the formation of water spots or streaks on films.



Type	Item	Description	Price
<b>Exposure Aids</b>	DDC	Radiation Dose/ Distance Calculator	Call for Pricing
	EXPCALC-EN	Carestream Film Exposure Calculator, Iridium 192 (Same as JEM & other brands)	<b>FREE</b>
	8924177	Carestream NDT Image Guide	
<b>Manual Chemistry</b>	WMI-SB	WMI Indicator-Stop Bath, 16 oz. Bottle (Makes 8 Gallons)	Call for Pricing
	WMI-FW200	WMI Flo Wash 200 Solution, 16 oz. Bottle	Call for Pricing
<b>Film Processing Accessories</b>	300	GRALAB Model 300 Timer	Call for Pricing
	2150SS	Electra SAFE-HETE All-Purpose 5 1/2" x 5 1/2" Portable Electric Water Heater Insulated Handle	Call for Pricing
	3150SS	Electra SAFE-HETE All-Purpose 5 1/2" x 11 1/2" Portable Electric Water Heater Insulated Handle	Call for Pricing
	SP*001326	28" Plastic Stirring Paddle	Call for Pricing
	SP*001072	7 1/4" Floating Thermometer w/ String (Display 30°F - 120°F)	Call for Pricing
<b>Film Viewing Accessories</b>	Squeegee	Squeegee, 4.75" Wiper Length	Call for Pricing
	WCG-M, L or XL	White Cotton Inspection Gloves, 12 per Pack (M - 8.1"L , L - 9.2" L , XL - 9.8"L)	Call for Pricing
	SP*001770	Mini Comparater 7X with #5 Reticle and Fabric Pouch	Call for Pricing
	MD-1	Model-1 (ASME) Film Image Scale w/certs	Call for Pricing
	MD-2	Model-2 (API 1104) Film Image Scale w/certs	



EXPCALC-EN



8924177



300



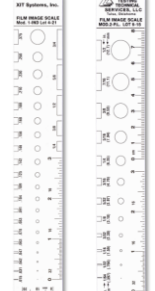
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SP\*001072



Squeegee



MD-1 &amp; MD-2

## MOBILE DARKROOMS

### Lemker & Harris Darkrooms

#### ***Building Darkrooms Since 1975***

Lemker & Harris is the leading manufacturer of mobile fiberglass RT darkrooms and developing tanks for the NDT service and inspection industry in the USA. We've been a family owned business operating since 1975.

We have three models of darkrooms in our "off the shelf" designs. They are the 6', 8', and 8' Generator. All of these models include a developing tank, front foil, 26 hanger dryer, driver side cabinet, and a cabinet above the developing tanks recessed into the foil. You then have the option of whether or not you want to go with the roof mount RV Style air conditioner, or if you want us to install a standard window unit.

We are here for the long haul and stand behind what we build. Our typical unit usable life is over a decade and with proper care, we see them last even longer.



Item	Description	Price
CR6	L&H 6' Darkroom w/ Rear Mount AC	Call for Pricing
CR8	L&H 8' Darkroom w/ Rear Mount AC (Full bed width without generator compartment)	Call for Pricing
CR8G	L&H 8' Generator Darkroom w/ Rear Mount AC	Call for Pricing
CR8G-CR	L&H 8' Generator CR Darkroom w/ Rear Mount AC and Additional Cabinetry for CR Workflow	Call for Pricing

***\*Roof Mount AC is an Available \$575 Option\****

#### ***6' Darkroom***

This unit is the most popular with pipeline work. Combined with an 8' bed, you have ample storage for anything you may not want to load into a darkroom, but need on the right-of-way.



#### ***8' Darkroom***

Our 8' units give the technician the most room inside possible for them to work. They also have the most storage inside of the unit. For plant/shop work, this unit is a go to for many companies.

#### ***8' Generator Darkroom***

This is just like our standard 8' unit, but with the exception of having a convenient storage compartment on the driver's side to store a generator. This unit is versatile as it allows you to have the interior space of an 8' unit with space to keep a generator for those times that there is no supplied power to hook up to.



**FREE  
INSTALLATION**

***We will install your new darkroom on your truck at no additional cost, if you pick up at our Houston facility.***



**Miscellaneous Darkroom Products****L&H DEVELOPING TANKS***Our Developing Tanks are Widely Considered to be the Industry Standard*

The standard design is (5) 10 gallon compartments, which we refer to as the "5 Even". This has been the design that 95%+ of companies have preferred for at least the past 15 years, but we are also happy to provide a developing tank built to your specifications to fit your needs.

Starting in late 2019, we replaced the welded stainless pipe/stud that was used to secure the lid with a serviceable stainless forged receiver with a removable stud that allows you to replace the threaded stud at any point if needed.

It is one of the many ways that we are constantly pushing ourselves to see if there is a better way for us to provide an even better product for our customers.

**SP\*001764**

Item	Description	Price
SP*001764	L&H Developing Tank w/ 5 Even (10 Gallon) Compartments and PVC Plumbing	<b>Call for Pricing</b>
SP*001499	21" Wide x 3/4" Thick x 1" Long Developing Tank Replacement Seal with Peel off Adhesive (Specify Length When Ordering)	<b>Call for Pricing</b>
SP*001053	Replacement Low-Profile Darkroom Heater/Blower	<b>Call for Pricing</b>
SP*001982	Camera Security Box with Mounting Bracket Fits all OEM's Gamma Ray Projectors (ID: 16"L x 10"W x 11"H)	<b>Call for Pricing</b>

**SP\*001499****SP\*001053****SP\*001982****DARKROOM TRUCK STEP**

QED Steps are Aluminum Construction - Never need grease or paint, only two moving quick releases. Slides into receiver hitch and lifts up during travel and down for use. Helps reduce or eliminate any possible falling accidents.

Item	Description	Price
Q-AHS	QED Aluminum Hinged Darkroom Truck Step	<b>#REF!</b>
Q-AHS-R	QED Aluminum Hinged w/ Handrail Darkroom Truck Step	<b>#REF!</b>

**Q-AHS****Q-AHS-R**



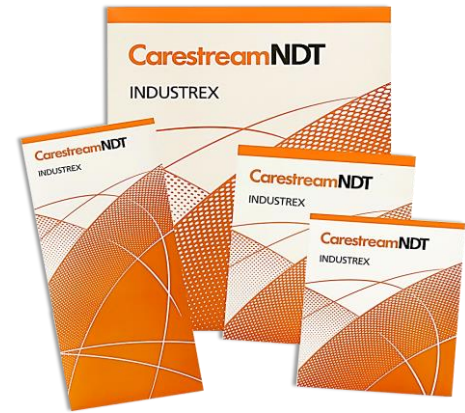
# COMPUTERIZED RADIOGRAPHY (CR)

## CR IMAGING PLATES

# CarestreamNDT

The Carestream INDUSTREX improved Flex GP, HR and XL Blue Digital Imaging Plates are:

- Flexible – Wrap around most shapes
- Sharp – Better resolution than high-speed films, and a suitable replacement for many applications
- Versatile – Use in a rigid or flexible cassette
- Efficient – Phosphor plates can be erased and reused thousands of times, require less exposure than film, and provide faster image access
- Certified – All plates meet requirements for the highest system class per EN 14784-1 and ASTM E 2446



### High Resolution (HR)

The high resolution imaging plate is best for applications where the best imaging quality is required. This plate produces weld quality images, and has the best detectability (contrast sensitivity) in the industry. This plate can be used for general X-ray, and Iridium or Selenium applications. Typical industries are oil and gas and aerospace.

Item	Size	Carestream Packaging		QED Packaging Price
		Quantity	Price	
8802324	70mm x 10"	1 - 24 25+	Call for Pricing Call for Pricing	Call for Pricing
8348641	70mm x 17"	1 - 24 25+	Call for Pricing Call for Pricing	Call for Pricing
1006105	70mm x 24"	1 - 24 25+	Call for Pricing Call for Pricing	N/A
1004746	70mm x 36"	1 - 24 25+	Call for Pricing Call for Pricing	
8094922	3.5" x 10"	1 - 24 25+	Call for Pricing Call for Pricing	Call for Pricing
1904267	3.5" x 17"	1 - 24 25+	Call for Pricing Call for Pricing	Call for Pricing
1680214	4.5" x 10"	1 - 24 25+	Call for Pricing Call for Pricing	Call for Pricing
1466945	4.5" x 17"	1 - 24 25+	Call for Pricing Call for Pricing	Call for Pricing
8491615	5" x 7"	1 - 24 25+	Call for Pricing Call for Pricing	N/A
1734334	6" x 10"	1 - 24 25+	Call for Pricing Call for Pricing	Call for Pricing
1734185	6" x 17"	1 - 24 25+	Call for Pricing Call for Pricing	Call for Pricing
1848688	7" x 17"	1 - 24 25+	Call for Pricing Call for Pricing	Call for Pricing
1775576	8" x 10"	1 - 24 25+	Call for Pricing Call for Pricing	Call for Pricing
1174424	10" x 12"	1 - 24 25+	Call for Pricing Call for Pricing	N/A
8360521	14" x 17"	1 - 24 25+	Call for Pricing Call for Pricing	

### Imaging Plate Accessories

Item	Description	Price
SP*001954	16" x 18" Aluminum Profile Backing Plate	Call for Pricing
5280094	Carestream MIN-R Ready to Use Screen Cleaner Wipes, 50/Bottle	Call for Pricing
8607020	Carestream X-OMAT Antistatic Cleaning Solution for Intensifying Screens, 8oz Bottle	Call for Pricing
33390	KIMTECH Pure 100% Polypropylene W4 Dry Wipers 9" x 9", Pack of 100	Call for Pricing



SP\*001954



5280094



8607020



33390

# MAGNETIC PARTICLE

## MPI CONSUMABLES



Improve your magnetic particle inspection with Magnaflux fluorescent powders, visible and colored magnetic particles, contrast aid paint and other products for mag particle testing.



### MAGNAGLO - Wet Fluorescent Magnetic Particles

Item	Product	Description	Packaging	Price
01-0130-71	14A	Wet Method Fluorescent Powder Concentrate (Makes 94 Gallons)	1 lb. Jar	Call for Pricing
01-1725-78	14A Aqua-Glo	Water-Based Fluorescent Magnetic Particle	12 Aerosols/Case	Call for Pricing
01-0145-78	14AM	Fluorescent Prepared Bath with Carrier II	12 Aerosols/Case	Call for Pricing
01-0145-40			5 Gallon Pail	Call for Pricing

### MAGNAVIS - Wet Visible (Black) Magnetic Particles / White Contrast Paint

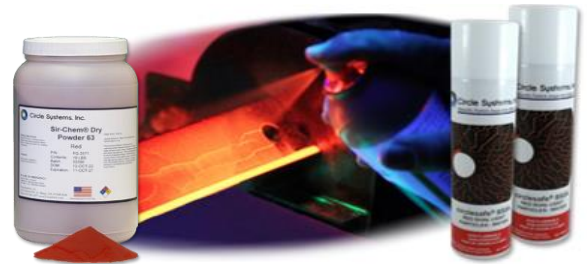
Item	Product	Description	Packaging	Price
01-1580-78	7HF	Black Visible Premix with Carrier II	12 Aerosols/Case	Call for Pricing
01-9140-78	MV-740	Water-Based Visible Magnetic Particle Ready-to-Use Suspension		Call for Pricing
01-2250-78	WCP-2	White Contrast Paint		Call for Pricing

### MAGNAVIS - Dry Visible Magnetic Particles

Item	Product	Description	Packaging	Price
01-1780-69	8A Red	Red Non-Fluorescent Magnetic Powder	10 lb. Pail	Call for Pricing
01-1780-87			45 lb. Pail	Call for Pricing
01-1716-69	#1 Gray	Gray Non-Fluorescent Magnetic Powder	10 lb. Pail	Call for Pricing
01-1716-87			45 lb. Pail	Call for Pricing
01-1732-69	#2 Yellow	Yellow Non-Fluorescent Magnetic Powder	10 lb. Pail	Call for Pricing
01-1732-87			45 lb. Pail	Call for Pricing



Circle Systems designs products with worker safety and environmental protection in mind. Circle has led the way in developing products for use in water based carriers to replace petroleum based chemistry in many applications. Circle has eliminated harmful propellants from the CircleSafe aerosol products.



### CircleSafe & Mi-Glow - Wet Fluorescent Magnetic Particles

Item	Product	Description	Packaging	Price
FG-3590	778a	Wet Fluorescent (Water Media)	12 x 19 oz Aerosols/Case	Call for Pricing
FG-3145	800LS-RTU	Wet Fluorescent (Oil Media)	6 x 1 Quart Bottles	Call for Pricing

### CircleSafe - Wet Fluorescent & Visible (Dual) Red Magnetic Particles

Item	Product	Description	Packaging	Price
FG-3630	850a	Visible & Fluorescent (Dual) Red Magnetic Particle Bath (Water Media)	12 x 19 oz Aerosols/Case	Call for Pricing

### CircleSafe - Wet Visible (Black) Magnetic Particles

Item	Product	Description	Packaging	Price
FG-3600	820a	Nonfluorescent Black (Water Media)	12 x 19 oz Aerosols/Case	Call for Pricing

### Mi-Glow - White Contrast Paint

Item	Product	Description	Packaging	Price
FG-3740	WCP	White Contrast Paint	12 x 16 oz Aerosols/Case	Call for Pricing

### Sir-Chem - Dry Visible Magnetic Particles

Item	Product	Description	Packaging	Price
FG-2551	61	Gray Dry Powder	10 lb. Jar	Call for Pricing
FG-2555			50 lb. Pail	Call for Pricing
FG-2571	63	Red Dry Powder	10 lb. Jar	Call for Pricing
FG-2575			50 lb. Pail	Call for Pricing
FG-2621	66	Yellow Dry Powder	10 lb. Jar	Call for Pricing
FG-2625			50 lb. Pail	Call for Pricing
FG-2631	68	Blue Dry Powder	10 lb. Jar	Call for Pricing
FG-2635			50 lb. Pail	Call for Pricing
FG-2651	Black	Black Dry Powder	10 lb. Jar	Call for Pricing
FG-2655			50 lb. Pail	Call for Pricing



Sherwin Incorporated has manufactured its DUBL-Chek line of products since 1964. DUBL-Chek products are approved by governing agencies worldwide, including the US Government, ASME, ASTM, as well as the prime aerospace and military contractors and OEM's.



### DUBL-CHEK - Wet Florescent Magnetic Particles

Item	Product	Description	Packaging	Price
GLO-NETIC-16	GLO-NETIC	Fluorescent Premix with Petroleum Carrier	9 Aerosols/Case	Call for Pricing

### DUBL-CHEK - Wet Visible (Black) Magnetic Particles / White Contrast Paint

Item	Product	Description	Packaging	Price
BLACK-OXIDE-16	BLACK-OXIDE	Black Oxide Particles with Petroleum Carrier	9 Aerosols/Case	Call for Pricing
CP-2-16	CP-2	White Contrast Paint (Non-Stripable)		Call for Pricing

## MPI CONSUMABLE AIDS MATERIAL ACCESSORIES

### Applicators & Centrifuge Tubes

► Magnaflux Centrifuge Tubes are individually Calibrated to monitor the precise concentration of magnetic particles in suspensions made with Fluorescent and Visible magnetic particles as per ASTM E709, ASTM E1444 or ASME Section V.

► Type 2000 Magnetic Stripe Card is used for instantly evaluating the performance of the fluorescent wet-method bath as per ASTM E-709 & ASTM E-3024. This card can be used to quantitatively evaluate the performance of the fluorescent materials by displaying the number of indications that can be observed after the material has been applied to the stripe.

Item	Description	Price
PB-1	Magnetic Powder Blower provides reliable and controlled application of magnetic inspection powder to areas previously inaccessible	Call for Pricing
RB-4	Green Rubber Powder Applicator	Call for Pricing
RB-1	Powder Removal Bulb, Blue	Call for Pricing
625773	Model M 24 oz. Capacity Black Anodized Aluminum Sprayer w/ Nozzle #602, Adjustable from Extra Fine Mist to Pin Stream	Call for Pricing
2800	Type 2000 Magnetic Stripe Card	Call for Pricing
SP*001682	Centrifuge Tube for Fluorescent Magnetic Particles, 0 - 1.0 ml in 0.05 graduations (Certified)	Call for Pricing
SP*001683	Centrifuge Tube for Visible Magnetic Particles, 0 - 1.5 ml in 0.10 graduations (Certified)	Call for Pricing
SP*001684	Centrifuge Tube Stand	Call for Pricing



## YOKES

### PARKER RESEARCH / MAGNAFLUX YOKES

Item	Manufacturer	Waveform	Weight	Additional Items Included	Price
B-100	Parker Research	AC	6.5 lbs.	N/A (Yoke Only)	Call for Pricing
B-300		AC	7.5 lbs.		Call for Pricing
DA-400		AC/DC	8.5 lbs.		Call for Pricing
628554	Magnaflux	AC	4.8 lbs.	Carrying Case Battery with pouch, battery charger, #1 Gray magnetic powder, yellow paint marker, hand cleaner & carrying case	Call for Pricing
625643		AC/DC	7.4 lbs.		Call for Pricing
628994		DC	8 lbs.		Call for Pricing



B-100



B-300



DA-400



628554



625643



628994

**YOKE ACCESSORIES**

Item	Description	Price
TB-10	Magnetic 10lb Weight Lift Test Bar (Weight is stamped on each bar and is traceable to NIST)	Call for Pricing
TB-10S-4	Set of 4 10lb Weight Lift Test Bars (Weight is stamped on each bar and is traceable to NIST)	Call for Pricing
628297	Magnaflux Y-2 Replacement Cord	Call for Pricing
628840	Magnaflux Y-2 LED Yoke Light	Call for Pricing



TB-10S-4



628297



628840

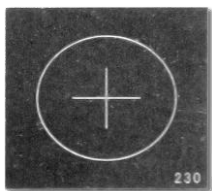
**MAGNETIC PARTICLE AIDS  
FIELD INDICATORS**

Item	Description	Price
N501196001	MD-220 Hall Effect Magnetic Field Strength Indicator	Call for Pricing
SP*001105	Pie Gauge Magnetic Field indicator with Certification	Call for Pricing
MG-25-10	Model 25 Magnetic Field Indicator, Range 10-0-10 (Calibrated)	Call for Pricing
MG-25-20	Model 25 Magnetic Field Indicator, Range 20-0-20 (Calibrated)	Call for Pricing
SP*001548	Economy Magnetic Field Indicator, Range 10-0-10 (Un-Calibrated)	Call for Pricing

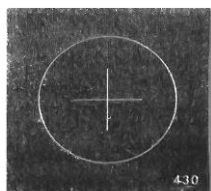
**QUANTITATIVE QUALITY INDICATORS (QQIs)**

Quantitative Quality Indicators (QQI) are magnetic particle test piece shims with artificial defects used to verify field direction and relative strength. QQIs are also used to balance multi-directional fields and to increase productivity by minimizing magnetizing shots. *QQI indicator shims are packaged and sold in sets of five.*

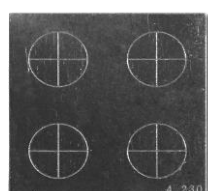
Item	Model	Description	Price/Set of 5
631590	CX-230	0.002 inch (0.05 mm) thickness with a notch flaw depth of 30% of shim thickness	Call for Pricing
631591	CX-430	0.004 inch (0.10 mm) thickness with a notch flaw depth of 30% of shim thickness	Call for Pricing
631592	CX4-230	Four circle-cross notch patterns, to be cut by user into four separate shims. 0.002 inch (0.05 mm) thickness with a notch flaw depth of 30% of shim thickness	Call for Pricing



631590



631591



631592

**TEST PIECES**

- Ketos Ring - System Performance Test Piece - The tool steel ring is manufactured to AS-5282 requirements to demonstrate magnetic particle system performance. A progressive series of sub-surface holes are used to verify equipment performance at different amperages using HWDC or FWDC waveforms.
- The Notch Defect Test Bar - System Performance Test Piece - The MPI test bar is a standardized test piece conforming to NAVSEA T907A-AS-GIB-010/271 requirements to demonstrate magnetic particle system performance. The test bar includes both surface and sub-surface defects in two directions to verify both circular and longitudinal fields using AC or DC waveforms.
- The MTU-3 Test Block is used to check the sensitivity of magnetic particle materials.

Item	Description	Price
008M004	Magnetic Flux Indicator Strips (Burma Castrol) Type I (G)eneral, Set of 5	Call for Pricing
SP*001685	Ketos Ring (AS-5282 Ring), O-1 Tool Steel including Certification Report	Call for Pricing
NA16	Notch Defect Test Bar (System Performance Test Piece - NAVSEA T907A-AS-GIB-010/271)	Call for Pricing
MTU-3	Reference Block Type 1 /MTU-3/ EN ISO 9934-2:2002 Magnetic Particle Test Block	Call for Pricing



008M004



SP\*001685



NA16



MTU-3

# LIQUID PENETRANT LPI CONSUMABLES

Magnaflux provides NDT-pros, engineers, and technician inspectors with chemical consumable products developed and tested to maximize process reliability in fluorescent penetrant inspection (FPI) and dye penetrant testing.



## ZYGLO - Fluorescent Penetrant (Type 1)

*Methods A (Water Washable) & C (Solvent Removable)*

Item	Product	Description	Sensitivity	Size	Price
01-3272-78	ZL-60D	Fluorescent Penetrant	Level 2 (Medium)	12 Aerosols/Case	Call for Pricing

## ZYGLO - Fluorescent Penetrant (Type 1)

*Methods B (P.E., Lipophilic) & C (Solvent Removable)*

Item	Product	Description	Sensitivity	Size	Price
01-3187-78	ZL-27A	Fluorescent Penetrant	Level 3 (High)	12 Aerosols/Case	Call for Pricing
01-3188-78	ZL-37		Level 4 (Ultra-High)		Call for Pricing

## SPOTCHECK - Visible Penetrant (Type 2)

*Methods A (Water Washable) & C (Solvent Removable)*

Item	Product	Description	Method	Size	Price
01-5155-78	SKL-SP2	Visible Penetrant	C	12 Aerosols/Case	Call for Pricing
01-5155-40				5 Gallon Pail	Call for Pricing
01-5190-78	SKL-WP2	Visible Penetrant	A & C	12 Aerosols/Case	Call for Pricing
01-5190-40				5 Gallon Pail	Call for Pricing

## SPOTCHECK - Cleaner & Remover

*(Used for both Type 1 & 2 Penetrants)*

Item	Product	Description	Class	Size	Price
01-5750-78	SKC-S	Solvent Cleaner & Remover	2	12 Aerosols/Case	Call for Pricing
01-5750-40				5 Gallon Pail	Call for Pricing

## ZYGLO / SPOTCHECK - Developer (Used for both Type 1 & 2 Penetrants)

*(Used for both Type 1 & 2 Penetrants)*

Item	Product	Description	Form	Size	Price
01-3354-78	ZP-9F	Solvent-based Developer	d/e	12 Aerosols/Case	Call for Pricing
01-5352-78	SKD-S2				Call for Pricing

Met-L-Chek, a McGean company, is an approved manufacturer, qualification laboratory, and supplier of liquid penetrant inspection materials under SAE QPL AMS 2644 by the United States Air Force Research Laboratory's Materials and Manufacturing Directorate at Wright Paterson Air Force Base.



## Met-L-Chek - Visible Penetrant (Type 2)

*Methods A (Water Washable), B (P.E., Lipophilic) & C (Solvent Removable)*

Item	Product	Description	Method	Packaging	Price
M-VP-31A-16	VP-31A	Visible Penetrant	B & C	12 Aerosols/Case	Call for Pricing
M-VP-30-16	VP-30		A & C		Call for Pricing

## Met-L-Chek - Cleaner/Remover & Developer

*(Used for both Type 1 & 2 Penetrants)*

Item	Product	Description	Class / Form	Packaging	Price
M-E-E9A-16	E-59A	Solvent Cleaner & Remover	Class 2	12 Aerosols/Case	Call for Pricing
M-D-70-16	D-70	Developer Non-Aqueous	Form d/e		Call for Pricing



SHERWIN Dubl-Chek products are approved by governing agencies worldwide, including the US Government, ASME, ASTM, as well as the prime aerospace and military contractors and OEM's.

## DUBL-CHEK - Visible Penetrant (Type 2)

*Methods A (Water Washable), B (P.E., Lipophilic), C (Solvent Removable) & D (P.E., Hydrophilic)*

Item	Product	Description	Method	Packaging	Price
DP-40-16	DP-40	Visible Penetrant	B, C & D	9 Aerosols/Case	Call for Pricing
DP-51-16	DP-51		A & C		Call for Pricing

## DUBL-CHEK - Cleaner/Remover & Developer

*(Used for both Type 1 & 2 Penetrants)*

Item	Product	Description	Class / Form	Packaging	Price
DR-60-16	DR-60	Cleaner/Remover	Class 2	9 Aerosols/Case	Call for Pricing
D-100-16	D-100	Developer Non-Aqueous	Form d/e		Call for Pricing

## DUBL-CHEK - Hi-Temp Visible Penetrant (Type 2), Remover & Developer

*(Can be used up to 350°F)*

Item	Product	Description	Method / Class / Form	Packaging	Price
KO-17-16	KO-17	Hi-Temp Visible Penetrant	Method A & C	9 Aerosols/Case	Call for Pricing
KO-19-16	KO-19	Hi-Temp Remover	Class 2		Call for Pricing
D-350-16	D-350	Hi-Temp Developer	Form d/e		Call for Pricing

## LPI ACCESSORIES

### MATERIAL ACCESSORIES

#### LPI Applicators & Sprayers

► DEMA Injector Kit - For spraying Hydrophilic Emulsifier. The emulsifier is drawn into the water stream by the Dema valve, emitting an emulsifier/water spray. The Dema Injector allows the penetrant user to process parts with the Hydrophilic method without adding large dip tanks.

Item	Description	Price
625773	Model M 24 oz. Capacity Black Anodized Aluminum Sprayer w/ Nozzle #602, Adjustable from Extra Fine Mist to Pin Stream	Call for Pricing
DDS-1	Dry Developer Sprayer, One Quart Capacity	Call for Pricing
S-1/2HH-25-D	Tri-Con NDT Rinse/Spray Gun Complete	Call for Pricing
520090	Magnaflux Water Spray Gun w/ Hose Adapter	Call for Pricing
SP*001695	244CT DEMA Injector Kit - for emitting an Hydrophilic Emulsifier/Water Spray	Call for Pricing



625773



DDS-1



S-1/2HH-25-D



520090



SP\*001695

#### Monitoring Devices & Wiping Cloths

► Refractometer - Easy to use device to measure the concentration of the Hydrophilic Emulsifier remover in water and is required to meet Pratt and Whitney and GE concentration specifications for Hydrophilic removers.

► Hydrometer - Water Based Developers are designed for optimum performance within a specific concentration range. To control the concentration, the specific gravity is measured using the Hydrometer. If the reading is high, the concentration is high and water is generally added. If the reading is low, developer is added to the bath.

Item	Description	Price
300	GRALAB Model 300 Timer	Call for Pricing
2353	MASTER-53M Hand Held Refractometer	Call for Pricing
53M-CAL	Calibration Certificate for MASTER-53M Refractometer	Call for Pricing
53M-CASE	MASTER Carrying Case for 53M Refractometer	Call for Pricing
5857	Hydrometer (for monitoring developer concentration)	Call for Pricing
RAGS-50	White Lint Free Rags, 50 lb. Box	Call for Pricing



300



2353



5857



RAGS-50

#### REL TAM PANEL



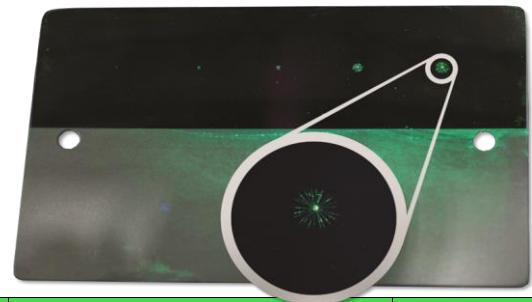
REL has added TAM Panels to its line of World Class NDT Solutions. REL is an approved Pratt & Whitney Source Manufacturer of the TAM 146040-1 Mirror Chrome Plate Finish TAM panel and the TAM 146040-2 Grit Finish Panel. REL's Testing and Monitoring (TAM) Panel uses a proprietary, non-clogging, Nickel plating that is heat treated to exact tolerances to produce an environmentally friendly Hexavalent Chromium Free product.

#### Your uniquely serialized REL TAM Panel includes

- Protective Case with Panel Certification
- Serialized crack size certification documents
- Pictures of the manufactured defects (5 each panel and 1:1 photo)

#### REL TAM Panel Features

- Pratt & Whitney Approved TAM 146040-1 (Mirror Finish) and TAM 14640-2 (Grit)
- Certification for GE Aviation Process Specification P3TF47
- Rolls Royce Approved
- REL Designed Green: Hexavalent Chromium Free
- Panel plating is designed to comply with RoHS, REACH, WEE, ELV, and Proposition 65



Item	Description	Type	Finish	Package Includes	Price
250-00104	REL TAM Panel	Single (Polished)	TAM 146040-1 Mirror Finish	Case with Panel Certification, Serialized Crack Size Certification Documents, and Pictures of the Manufactured Defects (5 each)	Call for Pricing
250-00103		Twin (Polished)			Call for Pricing
250-00105		Single (Grit)	TAM 146040-2 Grit Finish		Call for Pricing



**ADDITIONAL LPI PANELS/BLOCKS****NiCr Twin Cracked Test Panels**

NiCr Panels are used to compare new and used penetrants and can also be used for comparing performance of different penetrant materials or different processing techniques. Each set consists of a pair of identical panels marked A and B with manufacturer's Certification and Crack photograph.

These panels are made by plating hard Nickel Chromium alloy on a 2mm thick brass substrate and stressing the panel in tension. The hard NiCr coating is brittle in comparison to the brass substrate so that the cracks created in the plated layer are limited to the thickness of the NiCr layer. The panel is then cut in half perpendicular to the direction of the cracks thus creating a matching pair of virtually identical cracks of controlled depth.

Specification Compliance: ASTM E1417, AMS 2647D, ISO 3452-3 & JIS Z 2343-3



Sensitivity* (Unofficial)		<ul style="list-style-type: none"> <li>Fluorescent Penetrant Sensitivity Levels are established by the USAF Laboratory at Wright Patterson AFB under highly controlled conditions.</li> <li>Sensitivity testing is not something the penetrant manufacturer or user can do. What you can do is compare samples using appropriate NiCr Cracked Panels.</li> </ul>
Crack Depth	Level	
50 µm	1, 2, 3, 4	
30 µm	2, 3, 4	
20 µm	3, 4	
10 µm	4	

Item	Description	Sensitivity (Flaw Depth)	Level	Price
NiCr-10	NiCr Test Panel	10µm (0.0004")	4	Call for Pricing
NiCr-20		20µm (0.0008")	3, 4	
NiCr-30		30µm (0.0012")	2, 3, 4	
NiCr-50		50µm (0.002")	1, 2, 3, 4	

**ADDITIONAL LPI PANELS/BLOCKS**

► WTP-1 SHERWIN Wash Test Panel is used to run monthly removability testing as required by ASTM E1417 and MIL-STD-6866. The panel is made of stainless steel measuring 4" x 6" and 0.090" thick with two parallel, "medium rough" strips, each 6" x 1.5" separated by a smooth 1" strip.

► WTP-2 SHERWIN Wash Test Panel is used to run removability tests. The 1.5" x 2" panel is made from 16 gauge 301 or 302 stainless steel, by grit blasting with 80 mesh aluminum oxide grit and 60 psi of air pressure. The roughened surface that is produced is free of scratches and blemishes.

► ADP-1 SHERWIN Aqueous Developer Test Panel is used to check the fluorescence and coverage of soluble and suspendable aqueous developers as per ASTM E1417. The panel is made of aluminum measuring 3" x 10".

► Cracked Aluminum Test Blocks compare sensitivity of different penetrants or sensitivity of new and used penetrants. This is done by processing one half of the block with used penetrant and the other half with fresh penetrant. A 1/8" wide groove separates the blocks two sides to facilitate side-by-side penetrant comparison.

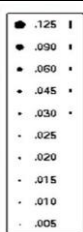
Item	Description	Price
WTP-1	SHERWIN Wash Test Panel (Removability as per ASTM E1417 & MIL-STD-6866)	Call for Pricing
WTP-2	SHERWIN Wash Test Panel (Removability)	Call for Pricing
ADP-1	SHERWIN Aqueous Developer Test Panel (as per ASTM E1417)	Call for Pricing
CAB	Cracked Aluminum Test Block	Call for Pricing

*\*Cracked Aluminum Test Blocks are meant for one-time use as once the penetrant gets in the crack it is very difficult to completely clean.*

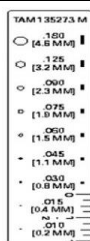
**LPI MEASURING AIDS****Crack Comparators**

Crack comparators are used to measure the actual size of indications identified during the liquid penetrant inspection process.

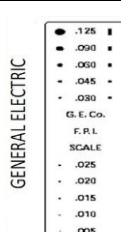
Item	Description	Price
514048	Fluorescent Green General Purpose Crack Comparator, measured in increments 0.005" to 0.125"	Call for Pricing
514050	Fluorescent Green Pratt & Whitney (TAM 135273) Crack Comparator, measured in increments 0.010" to 0.180"	Call for Pricing
SP*001697	Fluorescent Green General Electric Crack Comparator, measured in increments 0.005" to 0.125"	Call for Pricing
SP*001698	Fluorescent Green Fractional Size Crack Comparator, measured from 1/64" to 1/4"	Call for Pricing
SP*001699	Fluorescent Green Swing Away General Purpose Crack Comparator, measured in increments 0.005" to 0.125"	Call for Pricing
SP*001481	Fluorescent Green Swing Away (TAM 190466) Crack Comparator, measured in increments 0.005" to 0.180"	Call for Pricing



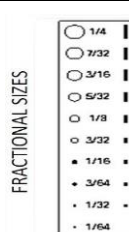
514048



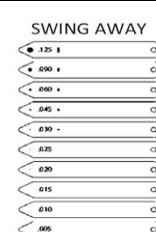
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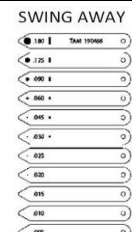
SP\*001697



SP\*001698



SP\*001699



SP\*001481

# BLACKLIGHTS

## HANDHELD LED UV-A LAMPS

### MAGNAFLUX HANDHELD

#### EV6000 Inspection Lamp

The EV6000 features a large 9 inch (5,000  $\mu\text{W}/\text{cm}^2$ ), uniform beam without hot spots that is one of the widest in the industry and is certified to NDT standards for LED UV lamps and certified for Aerospace Prime and OEM specifications for emission spectrum and beam profile. Each unit is shipped with a manufacturer's certificate of conformance which meets or exceeds all current specifications for use with fluorescent liquid penetrant and magnetic particle testing.



Item	Description	Compliance	UV Intensity	UV Coverage	Price
625784	EV6000 Hand-Held LED UV lamp	ISO 3059, ASTM E3022 & RRES 90061	5,000 $\mu\text{W}/\text{cm}^2$	Ø 9 Inches	Call for Pricing



#### UVISION 365 Series Inspection Lamps

The Uvision 365 SERIES is Spectrolite's innovative line of compact, broad-beam NDT handheld lamps. These lightweight yet rugged lamps boast an IP65 rating – they are dust-tight and water resistant. Using a state-of-the-art heat sink design, the uVision™ is mechanically cooled without the need for a fan. In addition to three powerful UV-A (365 nm) LEDs, it has a convenient white light LED for illuminating work areas. Compliant versions have embedded microprocessors to keep lamps within specifications.

##### **What's Included...**

**Mains Model** - Comes complete Uvision 365 LED UV-A Lamp, in-line AC power supply, UV-absorbing spectacles, and padded protective case.

**Battery Model** - Comes complete Uvision 365 LED UV-A Lamp with in-handle lithium battery, in-line AC charger and cord, UV-absorbing spectacles, and padded protective case.



Item	Model	Version	Compliance	UV Intensity	UV Coverage	Price
UV-365HC	DELUXE	HC (AC)	ISO 3059 & ASTM E3022	6,000 $\mu\text{W}/\text{cm}^2$	Ø 6.4 Inches	Call for Pricing
UV-365ZHC		ZHC (Battery)		8,000 $\mu\text{W}/\text{cm}^2$	Ø 7.5 Inches	Call for Pricing

*\*Additional options that comply with Rolls-Royce RRES 90061 are available upon request.*

### LABINO HANDHELD

#### MB 3.0 Series Inspection Lamps

This compact light is simply Genius! A combination of smart mechanics and efficient electronics, designed to survive extreme temperatures and harsh working conditions. Penetrant resistant, with acoustic battery indicator and certified with an ingress protection marking of IP68. Depending on the model, the beam diameter is 8-9 inches and with intensities that vary from 4,500 to 9,000  $\mu\text{W}/\text{cm}^2$ . Zeus and Selene are equipped with a strong white light as well. The AC (mains) operated model weighs just 1.4 lbs and the battery operated model weighs just 1.5 lbs.



##### **Mains AC Version Package Includes:**

Lamp with 13 foot cord, Power Supply Unit 100-240V AC, AC power cord, UV Block Glasses and Carrying Case. The cord can be customized to the length of your choice.

##### **Battery Version Package Includes:**

Lamp, Car Charger, Four Batteries, UV Block Glasses, External Charger for wall outlet, Carrying Case, Belt Holster and Power supply for charging batteries while operating.



*Pictured w/ Athena*

Item	Model	Version	Compliance	UV Intensity	UV Coverage	Price
L119	ZEUS Built in White Light	AC	ISO 3059, ASTM E3022, RRES 90061, AITM6-1001, Pratt & Whitney & Boeing	4,500 μW/cm²	Ø 9 Inches	Call for Pricing
L118		Battery				
L121	HERMES	AC	ISO 3059, ASTM E3022, RRES 90061, AITM6-1001, Pratt & Whitney, Boeing & USAF			
L120		Battery				
L139	SELENE Built in White Light	AC	ISO 3059, ASTM E3022, AITM6-1001 & Pratt & Whitney	9,000 μW/cm²	Ø 8 Inches	
L138		Battery				
L125	ATLAS	AC	ISO 3059, ASTM E3022, AITM6-1001, Pratt & Whitney & USAF			
L124		Battery				

*Optional Spray Can Holder Accessory "Athena" (pictured above)*

Athena mounts on the light and can fit ALL aerosol brands that are used in NDT. Buy it factory installed or add it later (Item A503).



**Drop it,  
Kick it, Bake  
it in an  
Oven, Run it  
over by a  
Tank? - It  
will still  
Work!**

## HERCULES Ex Inspection Lamp

**4 Year Warranty**

Designed upon request of the military, Hercules is probably the most durable and shock-proof UV light in the world today, suitable for any "heavy duty" environment. It comes with explosion proof approvals and is tested to comply with ASTM E3022-18 and all PRIMES requirements, including Rolls-Royce RRES 90061 and Airbus AITM6-1001. Accidentally dropped it, kicked it, baked it in an oven, run it over by a tank? – it will still work! – The battery is inside the light; you don't need to worry it got smashed like ordinary lights.

### **Explosive Atmosphere Certifications**

ATEX certified for Group II, Zone II (Certificate: ITS17AT-EX402144X), IECEx, NFPA 70 Article 500 for Class I (divisions II locations), Explosive Atmosphere Test as per MIL-STD-810G.

### **Operate the Lamp as Mains while Charging Batteries**

A separate PSU supplied can charge the batteries. This charger can only be used outside explosive atmospheres.

### **Four UV LEDs with White Light Block Filters**

Four high quality UV LEDs with respective high quality white light block filters that do not suffer from solarization.

Item	Model	Version	Compliance	UV Intensity	UV Coverage	Price
L3000	HERCULES	Battery	ISO 3059, ASTM E3022, RRES 90061, AITM6-1001, Pratt & Whitney, Boeing & USAF	4,000 µW/cm²	Ø 8 Inches	<b>Call for Pricing</b>



### **On/Off Switch**

On/Off Switch at the back prevents accidental activation.

### **Battery Powered**

Hercules Ex is powered with two rechargeable batteries for ease of use in field inspections and tight work spaces.



### **Package Includes**

Lamp, Car Charger, Four Batteries, UV Block Glasses, External Charger for wall outlet, Carrying Case, Charging Power Supply.



## BB 2.0 Series Inspection Lamps



Powerful, penetrant resistant and with an Ingress Protection 68 (IP68 Waterproof). Beam profile is probably the largest and smoothest from any portable UV-A light on the market today. Depending on the model, the beam diameter is 10-11 inches and with intensities that vary from 4,000 to 22,000 µW/cm². Selected models have been tested to comply with ASTM E3022-18, Rolls-Royce RRES 90061 and Airbus AITM6-1001. Battery running times are up to 7 hours.

### **Powered via Battery and AC (DUO) or Just AC**

Powered with your choice of either battery and mains or just mains. The battery version (referred to as DUO) can also be used as mains and operate the lamp while charging the battery.

### **BB 2.0 Battery (DUO) or Mains on a Flexible Arm**

All BB 2.0 Series models can be mounted on a flexible arm with the help of a handle adaptor. The flexible arm (PN: A536) can be supplied by QED.

**2 Year Warranty**

Item	Model	Version	Compliance	UV Intensity	UV Coverage	Price
L1074	IKAROS	AC	ISO 3059, ASTM E3022, RRES 90061, AITM6-1001, Pratt & Whitney & Boeing & USAF	4,000 µW/cm²	Ø 10.6 Inches	Call for Pricing
L1075		Battery				
L1076	HELIOS	AC	ISO 3059, ASTM E3022, AITM6-1001, Pratt & Whitney & USAF	9,000 µW/cm²	Ø 11 Inches	
L1077		Battery				
L1078	ARTEMIS	AC	ISO 3059 & ASTM E3022	22,000 µW/cm²	Ø 10.3 Inches	
L1079		Battery				



# FLASHLIGHT LED UV-A LAMP

## SPECTRO-UV FLASHLIGHT



### CLARITY 365 Series Kit



The Clarity 365 SERIES is the highest quality, longest running, COMPLIANT LED UV-A flashlight in the world! The IP68-rating means that it can withstand continuous immersion in one meter of water, making it ideal for rough environments. The 9-hour battery life is enough for a full work shift, making it the longest-running NDT flashlight on the market. Standing up to strict NDT standards, this product provides all of the top features including an induction charging base.

#### What's Included...

Lithium-Ion Version Includes - Flashlight w/ battery, induction charging dock, AC power cord, USB power cord, belt holster, UV-absorbing glasses & carrying case

*\*Additional options are available upon request.*

Item	Model	Version	Compliance	UV Intensity	UV Coverage	Price
SPN-CLR365-SC	<b>STANDARD INTENSITY</b>	SC (Lithium-Ion)	ISO 3059 & ASTM E3022	4,500 $\mu\text{W}/\text{cm}^2$	Ø 4 Inches	<b>Call for Pricing</b>

## LABION FLASHLIGHT / HEADLIGHT

**2 Year Warranty**

### UVG3 2.0 Series Inspection Flashlights

Powerful, penetrant resistant and with an Ingress Protection 68 (Waterproof). The beam profile is probably the largest and smoothest from any UV-A torch light on the market. Depending on the model, the beam diameter is 3-5 inches and with intensities that vary from 4,000 to 80,000  $\mu\text{W}/\text{cm}^2$ ! Battery running times are up to 8 hours.

#### One UV LED with White Light Block Filter

A high quality UV LED with respective high quality white light block filter that does not suffer from solarization.

#### UVG3 2.0 Single Kit Package Includes:

Lamp, Car Charger, Two Batteries, UV Block Glasses, External Charger for wall outlet, carrying case, belt holsters, wrist band, rubber bumper.



Item	Model	Compliance	UV Intensity	UV Coverage	Battery Run Time	Price
L134	<b>SPOTLIGHT</b>	ISO 3059 & ASTM E3022	80,000 $\mu\text{W}/\text{cm}^2$	Ø 3 Inches	4 Hours	<b>Call for Pricing</b>
<b>L135</b>	<b>MIDLIGHT</b>	ISO 3059, ASTM E3022, AITM6-1001, Pratt & Whitney & USAF	9,000 $\mu\text{W}/\text{cm}^2$	Ø 3.8 Inches	8 Hours	
<b>L136</b>	<b>FLOODLIGHT</b>	ISO 3059, ASTM E3022, RRES 90061, AITM6-1001, Pratt & Whitney & Boeing & USAF	4,000 $\mu\text{W}/\text{cm}^2$	Ø 4.8 Inches	4 Hours	

### UVG5 2.0 Series Inspection Headlight



Extremely durable! Compact, powerful and adjustable headlight that frees your hands during inspections. White light is optional. The beam profile is probably the largest and smoothest from any UV-A headlight on the market today. Depending on the model, the beam diameter is 3-5 inches and with intensities that vary from 4,000 to 80,000  $\mu\text{W}/\text{cm}^2$ ! Battery running times are up to 14 hours.

#### Battery Powered

Powered by two lithium batteries that can be recharged either by a cigarette outlet in a vehicle, a wall outlet or a PSU charger (without removing the batteries).

#### One UV LED with Filter and Optional Four White Light LEDs

A high quality UV LED with respective high quality white light block filter that does not suffer from solarization. Two different white lights: (a) a strong "search" white light for use in dark and tight spaces such as pipes and tanks and (b) a visual inspection white light.

**3 Year Warranty**

Item	Model	Compliance	UV Intensity	UV Coverage	Battery Run Time	Price
L127	<b>Spotlight</b> Built in White Light	ISO 3059 & ASTM E3022	80,000 $\mu\text{W}/\text{cm}^2$	Ø 3 Inches	8 Hours	<b>Call for Pricing</b>
<b>L128</b> L129	<b>Midlight</b> L128 - Built in White Light	ISO 3059, ASTM E3022, AITM6-1001 & Pratt & Whitney	9,000 $\mu\text{W}/\text{cm}^2$	Ø 3.8 Inches	14 Hours	
<b>L130</b> L131	<b>Floodlight</b> L130 - Built in White Light	ISO 3059, ASTM E3022, RRES 90061, AITM6-1001, Pratt & Whitney & Boeing	4,000 $\mu\text{W}/\text{cm}^2$	Ø 4.8 Inches	8 Hours	

*\*USAF has a requirement of No White Light and a Maximum Intensity of 10,000  $\mu\text{W}/\text{cm}^2$  making L129 the preferred Lamp.*



# OVERHEAD LED UV-A LAMPS

## LABINO OVERHEAD

# 4 Year Warranty

### GX ORION Series Modular Overhead UV System

There are three different GX Orion stationary UV LED models (Remote, UV & WH and UV only) producing different intensities and tested to comply with a number of NDT standards. All 3 models come as AC (Mains) powered and are modular devices able to connect as many extension modules as you may require to increase the covered area in your station.

There are two types of what we refer to as "extension" units. The difference of the two is the white light. GX Orion UV & WH Extension unit (PN L3104), is used to extend the coverage of GX Orion UV & WH mother unit or GX Orion REMOTE mother unit. Both these units have white light that emits 1,076 lux (100 fc) at a distance of 12 inches. GX Orion UV Extension unit (PN L3105), is used to extend the coverage of GX Orion UV only as this mother unit does not have a white light.

#### Key Features

- ▶ Certified with an ingress protection marking of IP68 Waterproof
- ▶ Classified as Penetrant Resistant
- ▶ PLC Interface - All GX Orion units come with a PLC interface that can be used to monitor the UV light from a computerized panel.
- ▶ Tested to comply with ASTM E3022-18, ROLLS-ROYCE RRES 90061 and AIRBUS AITM6-1001
- ▶ Carries a 4-YEAR WARRANTY, the longest in the industry!



Item	Model	Compliance	UV Intensity	UV Coverage	Price
L3100	<b>REMOTE</b> Built in White Light	ISO 3059 & ASTM E3022	1,500 - 7,000 μW/cm²	Ø 13 Inches x 9 Inches	<b>Call for Pricing</b>
L3101	<b>UV &amp; WH</b> Built in White Light	ISO 3059, ASTM E3022, AITM6-1001 & Pratt & Whitney	7,000 μW/cm²	Ø 13 Inches x 9 Inches	
L3102	<b>UV</b>	ISO 3059, ASTM E3022, RRES 90061, AITM6-1001, Pratt & Whitney & Boeing & USAF	4,500 μW/cm²	Ø 10 Inches x 7 Inches	
L3104	<b>EXTENSION</b>	Fits GX ORION REMOTE and GX ORION UV & WH Mother Units			
L3105		Fits GX ORION UV Mother Unit Only			

## LIGHT METERS

### LABINO, SPECTRO-UV & ECONOMICAL LIGHT METERS

- ▶ LABINO - APOLLO 3.0 Series - Radiometer/photometer measuring UV and visible light via a wireless sensor. Apollo 3.0 is traceable to NIST and is in compliance with ISO 3059. Apollo 3.0 Series Light Meters include a 4 Year Warranty.
- ▶ SPECTRO-UV - AccuPRO Series - Features an advanced, microprocessor-controlled readout unit with a single dual-wavelength sensor detector designed to measure and display both UV-A and Visible Light readings.
- ▶ SPECTRO-UV - AccuMAX Series - Compact, lightweight and battery-operated for convenient use in the factory, field or any other location where measurements need to be taken. Measures both ultraviolet and visible light. Optional Luminance Sensor Detector is available upon request (XS-555/L).

Manufacturer	Item	Description	UV Light Sensor Operating Range	White Light Sensor Operating Range	Price
<b>LABINO APOLLO 3.0 Series</b>	<b>M513</b>	Single Kit w/ Carrying Case	0 - 50,000 $\mu\text{W}/\text{cm}^2$	0 - 10,000 Lux (930 fc)	<b>Call for Pricing</b>
	M514	Double Kit (x2 Sensors) w/ Carrying Case			<b>Call for Pricing</b>
<b>SPECTRO-UV AccuPRO</b>	XP-2000	Dual Sensor, Complete with Rechargeable "AAA" Batteries, AC Charger and Carrying Case	0 - 100,000 $\mu\text{W}/\text{cm}^2$	0 - 5,382 Lux (500 fc)	<b>Call for Pricing</b>
<b>AccuMAX</b>	XRP-3000	Complete w/ Digital Readout Unit (XR-1000) and Protective Rubber Boot, Dual Sensor (XDS-1000), Water Resistant USB Cable and Carrying Case.			<b>Call for Pricing</b>
	XS-555/L	Luminance Sensor (Range: 0 - 1,000,000 $\text{cd}/\text{m}^2$ / 0 - 90,000 $\text{cd}/\text{ft}^2$ / 0 - 285,000 fL)			<b>Call for Pricing</b>
<b>Economical Off Brand</b>	SP*001477	Digital Illuminance Meter	<b>N/A</b>	0 - 200,000 Lux (20,000 fc)	<b>Call for Pricing</b>
	SP*001197	Digital UV-A/B Meter	0 - 40,000 $\mu\text{W}/\text{cm}^2$	<b>N/A</b>	<b>Call for Pricing</b>



# 4 Year Warranty

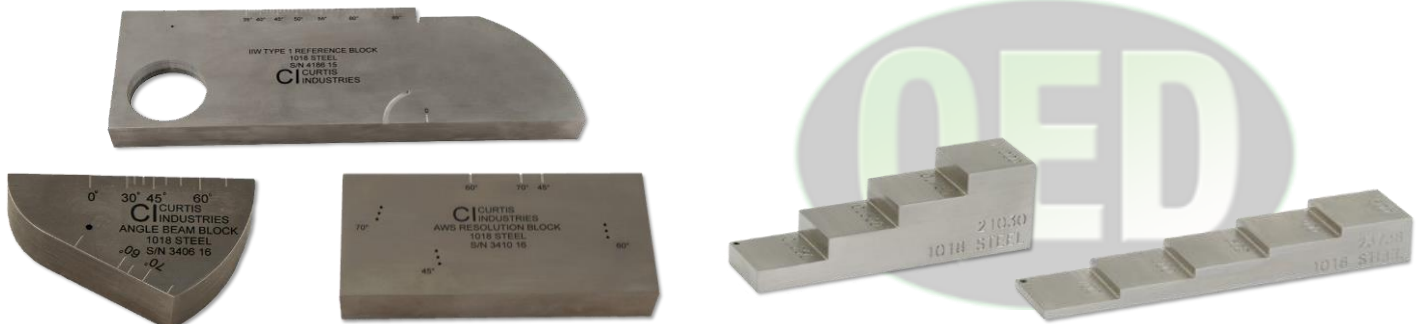
# ULTRASONIC CALIBRATION BLOCKS


**CURTIS INDUSTRIES, INC.**

## REFERENCE STANDARDS

Block Type	Description	Item	Alloy	Price
<b>IIW-Type 1</b>	Used for calibration of shear and longitudinal transducers, and verification of shear wedge exit point and refracted angle. Can also be used for resolution and sensitivity checking. In accordance with: IIW (International Institute of Welding) and ASTM E164.	CI-IIW1.I1018	1018 Steel	Call for Pricing
		CI-IIW1.ISS	304 Stainless Steel	Call for Pricing
		CI-IIW1.WC	Wooden Case	Call for Pricing
<b>IIW-Type 2</b>	A modified version of the original IIW-Type 1 design. Includes a 2.0" radius x 0.250" deep cut-out superposed on the 4.0" radius for distance calibration. Also includes numbers 3, 5 and 8 through holes (3/64", 5/64" AND 8/64" diameter) for sensitivity testing or surface wave inspection, and distance calibration marks to the 2.0" hole. In accordance with International Institute of Welding, ASTM E164 and U.S. Air Force NDI Manual T.O. 33B-1-1 specifications.	CI-IIW2.I1018	1018 Steel	Call for Pricing
		CI-IIW2.ISS	304 Stainless Steel	Call for Pricing
		CI-IIW2.WC	Wooden Case	Call for Pricing
<b>Angle Beam</b>	The Angle Beam Block also known as a "Rompas" block or simply "Angle Beam" is the ASTM and U.S. Air Force substitute for the DSC block for distance, beam index, refracted angle and sensitivity calibration. Block is 1.0" thick, contains a 1.0" radius opposite a 2.0" radius, and a 5/64" diameter x 0.375" deep flat-bottom hole.	CI-AB.ICS	1018 Steel	Call for Pricing
		CI-AB.ISS	304 Stainless Steel	Call for Pricing
		CI-AB.WC	Wooden Case	Call for Pricing
<b>QED 5-Step Block</b>	5-Step Block for thickness and linearity calibration in accordance with ASTM E797. Step Thickness: 0.100", 0.200", 0.300", 0.400", and 0.500"	Q5S-1018	1018 Steel	Call for Pricing
		Q5S-304	304 Stainless Steel	Call for Pricing
		SP*001356	Plastic Case	Call for Pricing
<b>QED 4-Step Block</b>	4-Step Block for thickness and linearity calibration in accordance with ASTM E797. Step Thickness: 0.250", 0.500", 0.750", and 1.000"	Q4S-1018	1018 Steel	Call for Pricing
		Q4S-304	304 Stainless Steel	Call for Pricing
		SP*001356	Plastic Case	Call for Pricing
<b>TIPSY</b>	Special Step Block for thickness and linearity calibration. This versatile block contains eight (8) steps. Set it down on one side and get the 1.0, 2.0, 3.0 and 4.0" steps. Then "TIP" it over and get the 1.5, 2.5, 3.5, and 4.5" steps.	CI-TIPSY.ICS	1018 Steel	Call for Pricing
		CI-TIPSY.ISS	304 Stainless Steel	Call for Pricing
		CI-TIPSY.WC	Wooden Case	Call for Pricing
<b>DSC</b>	AWS-type block used for shear wave distance and sensitivity calibration. Contains a 1.0" radius opposite a 3.0" radius. The 3.0" radius includes a 0.375" deep x 0.032" wide radiused slot. Also contains a 0° reference point for checking exit point on wedge, and a 0.125" diameter through hole and corresponding markings at 45°, 60°, and 70° for measuring actual refracted angle. In accordance with ASTM E164 and AWS 6.16.1B.	CI-DSCBLOCK.ICS	1018 Steel	Call for Pricing
		CI-DSCBLOCK.ISS	304 Stainless Steel	Call for Pricing
		CI-DSCBLOCK.WC	Wooden Case	Call for Pricing
<b>NAVSHIP 32 Finish</b>	Used for distance amplitude correction, sensitivity levels and flaw depth information. Contains six 3/64" diameter side-drilled through-holes at distances of 0.25" to 2.75" in 0.25" increments. MTDs are engraved near both scan edges on one face. In accordance with MIL-STD-271G Figure 9, and NAVSHIPS Specification 0900-006-3010/Section 6. Comes with a Standard 32 Finish. If a 125 Finish is needed please call for pricing.	CI-NAV32.ICS	1018 Steel	Call for Pricing
		CI-NAV32.ISS	304 Stainless Steel	Call for Pricing
		CI-NAV.WC	Wooden Case	Call for Pricing
<b>AWS Resolution</b>	Also called an RC block, the AWS Resolution Reference Block is used for checking resolution capabilities of angle beam transducers. Contains three sets of 0.0625" diameter through-holes for 45°, 60° and 70°. In accordance with AWS Welding Highway and Railway Bridges specification D2.0, and Structural Welding Code ANSI/AWS D1.1.	CI-AWS.CS	1018 Steel	Call for Pricing
		CI-AWS.SS	304 Stainless Steel	Call for Pricing
		CI-AWS.WC	Wooden Case	Call for Pricing
<b>DC</b>	AWS-type block used for shear wave distance calibration. Contains a 1.0" radius overlaying a 2.0" radius on a 180° segment. In accordance with ASTM E164 and BRR/AWS X-1 specifications.	CI-DCBLOCK.ICS	1018 Steel	Call for Pricing
		CI-DCBLOCK.ISS	304 Stainless Steel	Call for Pricing
		CI-DCBLOCK.WC	Wooden Case	Call for Pricing
<b>SC</b>	AWS-type block used for shear wave sensitivity calibration. Contains two 0.062" diameter through holes. In accordance with ASTM E164 and BRR/AWS requirements.	CI-SCBLOCK.ICS	1018 Steel	Call for Pricing
		CI-SCBLOCK.ISS	304 Stainless Steel	Call for Pricing
		CI-SCBLOCK.WC	Wooden Case	Call for Pricing
<b>DS</b>	AWS-type block used for longitudinal distance and sensitivity calibration. Contains a 2.0" high section between two 4.0" sections. In accordance with AWS requirements.	CI-DSBLOCK.CS	1018 Steel	Call for Pricing
		CI-DSBLOCK.SS	304 Stainless Steel	Call for Pricing
		DI-DSBLOCK.WC	Wooden Case	Call for Pricing

**Additional Blocks & Material Types are Available Upon Request. 7075 Aluminum Pricing is the same as 1018 Steel for all Curtis Blocks.**



# ULTRASONIC COUPLANT

## MAGNAFLUX

### GENERAL PURPOSE

• Echogel® 20 is an economical, basic-use couplant in medium-thick gel viscosity for ultrasonic inspections, like flaw detection/sizing and thickness gauging, where salt cake or metal corrosion salts are present. It provides good corrosion inhibition and resists viscosity breakdown on salt-caked boilers and other corroded materials.

• Sonotrace 30® is a general-purpose ultrasonic couplant in medium-thick gel viscosity for flaw detection and thickness gauging applications. This glycerin-free couplant is a great choice for applications requiring minimum halogens, sulfur and low melting point metals, and offers good performance at a lower price point.

• UT-X® Powder is a cost-effective couplant powder for flaw detection and thickness gaging applications where ferrous corrosion inhibition is required. UT-X Powder retains viscosity on salt caked boiler tubes, corroded pipe, structural steel, steel billets, welds and ship plate. Mixed with water at the inspection site, its compact and lightweight packets are easy to transport to a job site or to store as an emergency couplant for unanticipated shortages.



• Ultragel® II is an industry-leading, high-performance, ultrasonic couplant for flaw detection and sizing, thickness gauging, flow metering and acoustic emission testing. This general-purpose medium viscosity gel is known for its outstanding performance, excellent corrosion protection, thixotropic properties and comprehensive range of specifications and approvals.

Item	Product	Temperature Range	Container Size	Price
48-901 48-905 48-955	<b>Echogel 20</b>	27 to 140°F	1 Gallon Cubitainer 5 Gallon Cubitainer 55 Gallon Drum	<b>Call for Pricing</b> <b>Call for Pricing</b> <b>Call for Pricing</b>
42-901 42-905 42-955	<b>Sonotrace 30</b>	25 to 175°F	1 Gallon Cubitainer 5 Gallon Cubitainer 55 Gallon Drum	<b>Call for Pricing</b> <b>Call for Pricing</b> <b>Call for Pricing</b>
25-901 25-905 25-955	<b>Ultragel II</b>	-10 to 210°F	1 Gallon Cubitainer 5 Gallon Cubitainer 55 Gallon Drum	<b>Call for Pricing</b> <b>Call for Pricing</b> <b>Call for Pricing</b>
62-110 62-510	<b>UT-X Powder</b>	32 to 120°F	1 Gallon Packet 5 Gallon Packet	<b>Call for Pricing</b> <b>Call for Pricing</b>

## HIGH TEMPERATURE

• Sono 600 is a versatile, multi-purpose couplant with a wide operating temperature range for flaw detection, thickness gauging and acoustic emission testing in petrochemical, power generation, automotive, aerospace, food processing equipment and pharmaceutical manufacturing.

• Sono 1100 provides coupling for high-temperature thickness gauging and will maintain acoustic coupling at high temperatures beyond 15 seconds to give ample time to obtain thickness readings. In most cases, the signal strength increases with time to the point of the couplant's thermal decomposition.



Item	Product	Temperature Range	Container Size	Price
45-912 45-901	<b>Sono 600</b>	700 to 775°F	12 oz Bottle 1 Gallon Cubitainer	<b>Call for Pricing</b> <b>Call for Pricing</b>
30-T04 30-901	<b>Sono 1100</b>	0 to 700°F	4 oz Tube 1 Gallon Pail	<b>Call for Pricing</b> <b>Call for Pricing</b>

*\*Additional Couplant Options are Available Upon Request*



	Echogel 20	Sonotrace 30	Ultragel II	UT-X Powder	Sono 600	Sono 1100
Form	Gel	Gel	Gel	Powder	Thick Gel	Medium Paste
Viscosity*	5.5	4.5	5	Variable	N/A	N/A
Silicone					<b>X</b>	<b>X</b>
Glycerin			<b>X</b>			
Propylene Glycol	<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>	
Temperature Range	27 to 140°F	25 to 175°F	-10 to 210°F	32 to 120°F	700 to 775°F	0 to 700°F
<b>SPECIFICATION COMPLIANCE</b>						
API	<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>	<b>X</b>
ASME BPVC	<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>	<b>X</b>
ASTM F519	<b>X</b>		<b>X</b>			
ASTM F945			<b>X</b>			
AWS	<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>	<b>X</b>
Pratt & Whitney			<b>X</b>			
PWA 36604			<b>X</b>			

*\*Subjective measure on a 0 - 10 scale where 0 = water, 5 = medium gel, 10 = very thick paste*

## COUPLANT ACCESSORIES

Item	Description	Price
SP*001453	White Cylindrical 8 oz. Couplant Bottle with Flip Top Cap	<b>Call for Pricing</b>
SP*001537	Translucent 1 Gallon Couplant Jug with Handle & Pump	
SP*001492	55 Gallon Drum Pump	



## UT EQUIPMENT

### THICKNESS GAUGES

#### Danatronics EHC-09 Series Thickness Gauges

The EHC-09 series is available in 6 models to suit every budget and application. What's best is our simple upgrade path where all gauges are capable of quickly and easily (directly from the keypad) adding any software options. Features include a graphic display with multiple languages, vibrate on alarm, fast minimum, echo to echo to ignore coatings, 100K reading Datalogger with export to excel, B-scan and live A-scan with waveform adjust.

Standard EHC-09 Wave Series includes: Ultrasonic thickness gauge, DKS-537, 5 MHz 0.375 inch diameter potted cable, operational manual, Data XL interface program, couplant, and transport case. See chart below for standard inclusions for each gauge.

*\*Limited 2 Year Warranty on Parts & Labor*



*\*ECHO Thickness Gauge Pictured*

Model	Description	Price
<b>EHC-09A</b>	Hand-Held Digital Ultrasonic thickness gage including, NIST Traceable calibration certificate	<b>Call for Pricing</b>
<b>EHC-09B</b>	Hand-Held Digital Ultrasonic thickness gage including, NIST Traceable calibration certificate	<b>Call for Pricing</b>
<b>EHC-09</b>	Hand-Held Digital Ultrasonic thickness gage including: Echo to Echo software, NIST Traceable calibration certificate	<b>Call for Pricing</b>
<b>EHC-09DL</b>	Hand-Held Digital Ultrasonic thickness gage including: Echo to Echo & Datalogger w/ B-Scan software, NIST Traceable calibration certificate	<b>Call for Pricing</b>
<b>EHC-09-W</b>	Hand-Held Digital Ultrasonic thickness gage with including: Live Waveform/A-Scan, Echo to Echo, NIST traceable calibration certificate	<b>Call for Pricing</b>
<b>EHC-09DLW</b>	Hand-Held Digital Ultrasonic thickness gage including: Echo to Echo, Datalogger w/ B-Scan & Live Waveform/A-scan software, NIST Traceable calibration certificate	<b>Call for Pricing</b>

#### Danatronics ECHO Thickness Gauges

The ECHO series has a remarkable sunlight readable 3.5" color display, up to 32 Gb of micro SD memory, built-in rechargeable high capacity Li Ion battery all packaged in a custom case designed for IP67 rating. Not sure which model to choose? Don't worry, the ECHO series is fully capable of field upgrades directly from the keypad so you will never be stuck with an obsolete product or experience any downtime. ECHO Series can measure from .020" to 23" in steel in corrosion mode or as thin as .006" in steel when configured as a precision gauge.

**Standard Inclusions:** ECHO series ultrasonic thickness gauge, DKS-537, transducer up to 10 MHz, LM-06 cable, 2oz bottle of couplant, operation manual, Data XL interface program, USB cable, Charger Adapter, Transport Case \*A transducer is included with each model.

#### ECHO 9 - Corrosion Thickness Gauge

*\*Limited 2 Year Warranty on Parts & Labor*

Model	Description	Price
<b>ECHO 9</b>	Hand-Held Digital Ultrasonic CORROSION thickness gage including: Echo to Echo software, NIST Traceable calibration certificate	<b>Call for Pricing</b>
<b>ECHO 9W</b>	Hand-Held Digital Ultrasonic CORROSION thickness gage including: Echo to Echo & Live Waveform/A-Scan software, NIST Traceable calibration certificate	<b>Call for Pricing</b>
<b>ECHO 9DL</b>	Hand-Held Digital Ultrasonic CORROSION thickness gage including: Echo to Echo & Datalogger w/ B-Scan software, NIST Traceable calibration certificate	<b>Call for Pricing</b>
<b>ECHO 9DLW</b>	Hand-Held Digital Ultrasonic CORROSION thickness gage including: Echo to Echo, Datalogger w/ B-Scan & Live Waveform/A-Scan software, NIST Traceable calibration certificate	<b>Call for Pricing</b>

*\*ECHO 7 (Precision) & ECHO 8 (Corrosion and Precision) Series Thickness Gauges are Available Upon Request*

#### Dakota Ultrasonics ZX Series Thickness Gauges

The ZX Series of thickness gauges are packaged in an all aluminum case making them the most durable gauges on the market. The features included in the ZX Series offer a quality tool that will meet or exceed your application requirements. Our 5 year limited warranty indicates how we feel about the reliability and durability of the ZX Series gauges.

**ZX Series Kits Include:** Ultrasonic thickness gauge, selectable transducer, couplant, manual, plastic carrying case, certificate of calibration and AA batteries. PC software and data transfer cable included with data logging gauges. PC software available for download from website.

*\*Limited 5 Year Warranty*



Model	Item	Description	Price
<b>ZX-1</b>	Z-300-0001	Single velocity calibration. Velocity manually set using the VEL key on the keypad. Backlit display.	<b>Call for Pricing</b>
<b>ZX-2</b>	Z-301-0001	Single velocity calibration. Selectable 8 common material velocities, 2 custom velocities, or set manually using the VEL key. Backlit Display.	<b>Call for Pricing</b>
<b>ZX-3</b>	Z-302-0001	Easy field calibration; 1 or 2 point options. Selectable 8 common material velocities, 2 custom velocities, or set manually using the CAL key. Auto/manual zero, adjustable gain, selectable probe diameter (linearity), high Speed Scanning, and Backlit Display.	<b>Call for Pricing</b>
<b>ZX-5</b>	Z-303-0001	Same features as the ZX-3 plus Alarm Mode (high/low limits), Differential Mode, and VX velocity gauge. CDC compatible serial over USB (standard). <i>*Optional accessory RS232 serial or Bluetooth modules available</i>	<b>Call for Pricing</b>
<b>ZX-5 DL</b>	Z-304-0001	Same features as the ZX-5 (less serial over USB), plus an on-board data logger - Stores 10,000 readings in 40 files of 250 readings per file. USB-C connectivity, Includes transfer cable.	<b>Call for Pricing</b>
<b>ZX-6</b>	Z-305-0001	Same features/options as the ZX-5, plus echo-echo through paint multi mode. Thru-Paint range: 0.100" - 6.0" of base metal, with coating thickness from 0.001 to 0.075". Six selectable high damped probe diameters and frequencies. <i>*Optional accessory RS232 serial or Bluetooth modules available</i>	<b>Call for Pricing</b>
<b>ZX-6 DL</b>	Z-306-0001	Same features as the ZX-6 (less serial over USB), plus an on-board data logger - Stores 10,000 readings in 40 files of 250 readings per file. USB-C connectivity, includes transfer cable.	<b>Call for Pricing</b>

*\*Additional Dakota Ultrasonics Thickness Gauges are Available Upon Request*



## FLAW DETECTORS

### Sonatest

#### Sonatest WAVE Interactive Flaw Detector

Introducing WAVE by Sonatest. It integrates the latest technologies available in order to create a revolution in the ultrasonic non-destructive testing equipment market. Not only is it innovative, but the customisable interface also optimises the daily workflow, and a unique and embedded interactive scan plan, with ray-tracing capability and simulation tools, consolidates your results.

#### Interactive Scan Plan

The WAVE interactive scan plan has been developed to ease diagnostics on the inspected part. The scan plan can reproduce complex geometries such as Curved parts and T-joints. Combined with a real-time Raytracer, this unique feature facilitates the distinction between a real flaw and a geometrical indication. Thus avoiding unnecessary repair.

**Kit Includes:** WAVE Flaw Detector, Battery & Charger (with mains cable), Ultrasonic Couplant, Ethernet Adapter & Cable, User Manual, Quick Start Guide, Certificate of Calibration & Carrying Case.



Model	Description	Price
WAVE BNC	Sonatest WAVE BNC Kit	Call for Pricing

*\*Additional Sonatest Flaw Detectors are Available Upon Request*

## TRANSDUCERS AND WEDGES

### Ultrasonic Transducers and Accessories

CoreNDT manufactures two series of Standard Transducers: General Purpose (G) and High Resolution (H). Please refer to the information below to determine which series is best suited for your application.



#### General Purpose (G) Series

Offers the best combination of sensitivity and resolution for the majority of contact flaw detection applications and recommended for the majority of pulse-echo applications. Typically having two to three full ring cycles, these transducers are tuned to provide the best balance between gain and resolution for general purpose testing, with a bandwidth of 30% to 60% at -6 dB.

#### High Resolution (H) Series

Designed for optimum resolution and maximum bandwidth. The H Series are broadband transducers, making them an excellent choice for thickness gaging applications. While gain is somewhat lower than the G Series, they are damped to the limits of current technology, exhibiting one or two ring cycles with a bandwidth of 60% to 100% at -6 dB.

#### UT Wedges

UT wedges are used in industrial NDT inspections to introduce the transducer's acoustic energy at a non-perpendicular angle thereby allowing the sound beam to be transmitted at a more-optimized angle within the test part. The wave mode and angle is selected to maximize the ability to identify and size defects based on the test part's material, defect type, and orientation.

**Axial OD** - Inspecting Circumferential features from the pipe's OD.

**Circumferential OD** - Inspecting Axial features from the pipe's OD.

**Short Exit** - Allows closer inspection proximity to a joint, seam or weld crown.



### CoreNDT Angle Beam Transducers & Wedges

Angle Beam transducers are used in conjunction with a wedge to introduce a refracted shear wave into the material being tested. Our standard angle beams are built to be low noise and offer substantial power.

Transducer Type	Transducer Style	Part Number	Size	Frequency (MHz)	Connector Type	Price
Angle Beam	Standard	AB-1-500-G	.500" Ø	1	Top Mount BNC	Call for Pricing
		AB-1-500-1000-G	.500" x 1.00"			Call for Pricing
		AB-2-500-G	.500" Ø	2.25		Call for Pricing
		AB-2-500-500-G	.500" x .500"			Call for Pricing
		AB-2-500-1000-G	.500" x 1.00"			Call for Pricing
		AB-2-750-1000-G	.750" x 1.00"			Call for Pricing
		AB-2-1000-G	1.00" Ø			Call for Pricing
		AB-5-500-G	.500" Ø	5		Call for Pricing
		AB-5-500-500-G	.500" x .500"			Call for Pricing
		AB-5-500-1000-G	.500" x 1.00"			Call for Pricing
		AB-5-1000-G	1.00" Ø			Call for Pricing

*\*High Resolution Series are Available Upon Request*

Refracted Shear Wave Angle		45°	60°	70°	Price
Angle Beam Wedge (Standard 4-40 Threads)	.500" Ø	AB-W-500-45	AB-W-500-60	AB-W-500-70	Call for Pricing
	.500" x .500"	AB-W-500-500-45	AB-W-500-500-60	AB-W-500-500-70	
	.500" x 1.00"	AB-W-500-1000-45	AB-W-500-1000-60	AB-W-500-1000-70	
	.750" x 1.00"	AB-W-750-1000-45	AB-W-750-1000-60	AB-W-750-1000-70	
	1.00" Ø	AB-W-1000-45	AB-W-1000-60	AB-W-1000-70	

## CoreNDT AWS Angle Beam Transducers & Wedges

AWS angle beam transducers from CoreNDT are used with an AWS wedge to introduce a refracted shear wave into the material being tested. CoreNDT's AWS transducers are meeting or exceeding the American Welding Society's requirements.



Transducer Type	Transducer Style	Part Number	Size	Frequency (MHz)	Connector Type	Price
Angle Beam	AWS	AB-2-625-625-AWS	.625" x .625"	2.25	Top Mount BNC	Call for Pricing
		AB-2-625-750-AWS	.625" x .750"			Call for Pricing
		AB-2-750-750-AWS	.750" x .750"			Call for Pricing
Refracted Shear Wave Angle			45°	60°	70°	Price
AWS Snail Wedge (Standard 4-40 Threads)		.625" x .625"	AB-AWS-45	AB-AWS-60	AB-AWS-70	Call for Pricing
		.625" x .750"				
		.750" x .750"				

## CoreNDT Quick Change Angle Beam Transducers & Wedges



Transducer Type	Transducer Style	Part Number	Size	Frequency (MHz)	Connector Type	Price
Angle Beam	Quick Change	ABQC-2-250-G	.250" Ø	2.25	Top Mount Microdot	Call for Pricing
		ABQC-2-375-G	.375" Ø			Call for Pricing
		ABQC-2-500-G	.500" Ø			Call for Pricing
		ABQC-5-250-G	.250" Ø	5		Call for Pricing
		ABQC-5-375-G	.375" Ø			Call for Pricing
		ABQC-5-500-G	.500" Ø			Call for Pricing
		ABQC-10-250-G	.250" Ø	10		Call for Pricing
		ABQC-10-375-G	.375" Ø			Call for Pricing

*\*High Resolution Series are Available Upon Request*

Refracted Shear Wave Angle		45°	60°	70°	Price
Quick Change Wedge	.250" Ø	ABQC-W-250-45	ABQC-W-250-60	ABQC-W-250-70	Call for Pricing
	.375" Ø	ABQC-W-375-45	ABQC-W-375-60	ABQC-W-375-70	
	.500" Ø	ABQC-W-500-45	ABQC-W-500-60	ABQC-W-500-70	

*\*Quick Change Short Exit Wedges are Available Upon Request*

## CoreNDT Contact Transducers

CoreNDT contact longitudinal wave transducers are rugged and built to withstand direct contact with a variety of materials. They are used in many applications such as straight beam flaw detection and thickness gaging, detecting and sizing delamination, and inspecting plates, billets, bars, and other metallic and nonmetallic components.



Transducer Type	Transducer Style	Part Number	Size	Frequency (MHz)	Connector Type	Price
Contact	Fingertip	FC-2-250-G	.250" Ø	2.25	Top Mount Microdot	Call for Pricing
		FC-2-375-G	.375" Ø			Call for Pricing
		FC-2-500-G	.500" Ø			Call for Pricing
		FC-2-750-G	.750" Ø	Call for Pricing		
		FC-5-250-G	.250" Ø	5		Call for Pricing
		FC-5-375-G	.375" Ø			Call for Pricing
	FC-5-500-G	.500" Ø	Call for Pricing			
	Standard Contact	C-2-500-G	.500" Ø	2.25	Side BNC	Call for Pricing
		C-2-750-G	.750" Ø			Call for Pricing
		C-2-1000-G	1.00" Ø			Call for Pricing
		C-5-500-G	.500" Ø	5		Call for Pricing
		C-5-750-G	.750" Ø			Call for Pricing
		C-5-1000-G	1.00" Ø			Call for Pricing
		C-10-500-G	.500" Ø	10		Call for Pricing

*\*High Resolution Series are Available Upon Request*

## CoreNDT Removable Delay Line Transducers

CoreNDT delay line transducers are typically used for thin thickness gaging and searching for small flaws. These removable delay line introduce a time delay into the sound wave which improves near-surface resolution. Delays are standard in 0.500" length but available in custom length and shapes for custom job applications.



Transducer Type	Transducer Style	Part Number	Size	Frequency (MHz)	Connector Type	Price
Removable Delay Line	Delay Line	RDL-2-250-H	.250" Ø	2.25	Side Microdot	Call for Pricing
		RDL-2-500-H	.500" Ø			Call for Pricing
		RDL-5-250-H	.250" Ø	5		Call for Pricing
		RDL-5-500-H	.500" Ø			Call for Pricing
		RDL-10-250-H	.250" Ø	10		Call for Pricing
		RDL-10-500-H	.500" Ø			Call for Pricing
		RDL-15-250-H	.250" Ø	15		Call for Pricing

## High Temperature Corrosion Thickness Gauging Transducers

Dual element ultrasonic transducers for on-stream, thickness, corrosion and erosion surveys with a wide operating temperature for use in applications across refining, oil & gas, energy, nuclear, aerospace, and process sectors.

# hotsense



Manufacturer	Item	Operating Temperature	Tip Diameter	Frequency (MHz)	Connector Type	Price
<b>EVIDENT</b>	<b>D790-SM</b>	<b>-5 thru 932 °F</b>	0.434" (11 mm)	5	Top Dual Microdot	Call for Pricing
<b>ionix</b>	<b>HS582i_RH</b>	<b>-67 thru 1,022 °F</b>				Call for Pricing


Manufacturer	Item	Cable Type	Connector Type	Price
<b>EVIDENT</b>	<b>LCMD-316-5B</b>	Standard Cable Type	<b>Straight</b> Dual Molded Lemo 00 to Microdot	Call for Pricing
<b>ionix</b>	ACC-CB-1315	Standard Cable Type	<b>Straight</b> Dual Molded Lemo 00 to Microdot	Call for Pricing
	ACC-CB-615	High-Temperature Fiberglass Sleeve <b>392°F Continuous / 1022°F Intermittent</b>	<b>Right Angle</b> Dual Molded Lemo 00 to Microdot	Call for Pricing
	<b>ACC-CB-815</b>		<b>Right Angle</b> Dual Molded Lemo 00 to Microdot w/ 2" Handle and Strain Relief	Call for Pricing

*\*Cables are all 5 foot in length - ionix cables include an Evident gauge connector w/ probe identification for the D790*

## CABLES


QED offers a complete line of transducer cables. These cables are designed for optimum performance and durability.

### QED Standard Cables

Item	Connector Type	Image	Cable Type	Length	Price
Q-BB-174-6 Q-BB-58-6	BNC - BNC		RG 174 RG 58	6'	Call for Pricing Call for Pricing
Q-BL00-174-6 Q-BL1-174-6	BNC - Lemo 00 BNC - Lemo 1		RG 174		Call for Pricing
Q-L00L00-174-6 Q-L00L1-174-6	Lemo 00 - Lemo 00 Lemo 00 - Lemo 1				Call for Pricing Call for Pricing
Q-MB-174-6 Q-ML00-174-6	Microdot - BNC Microdot - Lemo 00				Call for Pricing



### CoreNDT Neon Green Protective Sheathing Cables

Item	Connector Type	Image	Cable Type	Length	Price
C-BB-174-G-6 C-BB-58-G-6	BNC - BNC		RG 174 RG 58	6'	Call for Pricing Call for Pricing
C-BL00-174-G-6 C-BL1-174-G-6	BNC - Lemo 00 BNC - Lemo 1		RG 174		Call for Pricing Call for Pricing
C-L00L00-174-G-6 C-L00L1-174-G-6	Lemo 00 - Lemo 00 Lemo 00 - Lemo 1				Call for Pricing Call for Pricing
C-MB-174-G-6 C-ML00-174-G-6	Microdot - BNC Microdot - Lemo 00				Call for Pricing Call for Pricing

## VISUAL MEASURING DEVICES WELDING GAUGES

# G.A.L. GAGE CO.



QED offers **G.A.L. GAGE** high-quality precision Weld Measuring Gauges for checking weld thickness, butt welds, pits, undercuts and much more. Our products include the 7-Piece Fillet Weld Set, Bridge Cam Gauge and the Adjustable Fillet Weld Gauge; to name a few.

Item	Description	Price
CAT2 PRO	GAL GAGE PRO Single Purpose Hi-Lo Welding Gauge (Inch)	Call for Pricing
CAT4	GAL GAGE Bridge Cam Gauge (BOTH Inch/Metric)	Call for Pricing
CAT5	GAL GAGE "V-WAC" Single Weld Gauge (Inch)	Call for Pricing
CAT6	GAL GAGE Automatic Weld Size Weld Gauge (Inch)	Call for Pricing
CAT8	GAL GAGE 7-Piece Fillet Weld Set (Inch)	Call for Pricing
CAT17	GAL GAGE Pipe Pit Gauge (Inch)	Call for Pricing
GG-SC	GAL GAGE Serialization and Certification NIST Traceable - Valid for 12 Months	Call for Pricing

*\*Welding Gauges are standardly accompanied by a Manufacturer Certificate of Conformance*

*\*If you require a Gauge or other item not shown above please contact us for a Solution.*

# LEAK DETECTION

## VACUUM BOX TESTING

### VACUUM BOXES, ACCESSORIES & SOLUTION



Used for leak testing in building of ships, barges, tanks, or any seal weld application. All Vacuum Boxes come with a complete Venturi and Non-Certified Gauge.

Item	Design	Size	Price
VB18	Flat	18"	Call for Pricing
VB30		30"	
VB18C	Corner	18"	Call for Pricing
VB30C		30"	
VB30FX	Flexible	30"	Call for Pricing
VB3WIC	3 Way Inside Corner	Triangle - 9.9" x 8.6" with .25" Radius	Call for Pricing
VB24BT	Boat Tail Flat	24"	Call for Pricing

*\*Pricing is Based off a Non-Certified Gauge, Call for Pricing if a Certified Gauge is Required*

Item	Design	Price
VB-PUMP	Vacuum Pump - Air Flow 26.5" Mercury; 110 Volt; 13 PSI	Call for Pricing
VB-Venturi	Venturi made of steel with inlet thread of 3/8" NPT outlet and vacuum ports are 1/2" NPT able to Vacuum up to 23 Hg (Used with Compressed Air)	Call for Pricing
VB-Gauge	2" Steel gauge with brass 1/4" NPT range is 0-30 Hg VAC (Non-Certified)	Call for Pricing
VB-Gauge-C	2" Steel gauge with brass 1/4" NPT range is 0-30 Hg VAC (NIST Certified)	Call for Pricing
SP*001550	Type 1 SHERLOCK 5-Second Leak Detector, 1 Gallon	Call for Pricing



# HARDNESS TESTING

## TELEWELD

### BRINELL HARDNESS TESTING

Telebrineller hardness measurements are a direct comparison to a known physical reference and therefore, measurements are not subject to inaccuracies due to; alloy, thickness, geometry, position, etc., that are common with many other portable testers.



Item	Description	Price
BHNTS	Telebrineller Complete Set; Includes five (5) bars of selected hardness; Microscope; Computer; Bar Holder; Calculation Pad, all inside Carrying Case	Call for Pricing
BHNXXX	Telebrineller Test Bars (Available in 145-350 Hardness)	3 thru 10 Call for Pricing
	<i>*BHN Bars have a Minimum Order of 3 Pieces - Bars can be Mixed to Obtain Quantity Pricing*</i>	11 thru 24 Call for Pricing
		25+ Call for Pricing
239-24	Halteman Filletester (Designed for Brinell Hardness Testing of fillet welds and other hard to reach areas)	Call for Pricing

## PHASE II

### PORTABLE HARDNESS TESTER

State of the art, digital portable hardness tester is designed to test the hardness of large hard metal parts. Loaded with useful functions only found on high priced models the PHT-1800 portable hardness tester is clearly setting a new industry standard by being the most accurate, economically priced portable hardness tester on the market today. Fast test speeds coupled with memory and output, this unit is a hand's down winner whether you are out in the field or in the QC shop.

Item	Description	Price
PHT-1800	Digital Portable Hardness Tester which can perform tests that easily convert to the most popular hardness scales (Rockwell, Brinell, Vickers, Shore, etc.). Includes: Base instrument, Impact device D, Calibrated test block, Custom carry case, Cleaning brush and Operation manual	Call for Pricing



BHNTS



239-24

PHT-1800





# SERVICE

QED provides comprehensive repair services for equipment across all NDT modalities and manufacturers. Our team of qualified technicians will restore your equipment to working order in accordance with manufacturer standards quickly and efficiently, saving you time and money. We also provide onsite repairs, calibrations, and installations.

## EQUIPMENT EVALUATION & REPAIR

### WHAT WE REPAIR

- ▶ UV Lights
- ▶ MPI Equipment (Yokes, Portables and Bench Units)
- ▶ LED Film Viewers
- ▶ Densitometers
- ▶ X-Ray Equipment (Controllers, Generators & Tubes)
- ▶ Radiation Safety/Survey Equipment
- ▶ Film Processors



Item	Description	Price
SP*001437	In-House Equipment Evaluation Fee	Call for Pricing
ROC	Rush Order Charge	Call for Pricing
ISTL	In-House Service Technician Labor (Hour)	Call for Pricing

*\*In-House Evaluation Fee (Per piece of Equipment) will be waived if Equipment is Repaired or New Equipment is Purchased*

## EQUIPMENT CALIBRATION/CERTIFICATION

QED provides professional calibration services in compliance with the National Institute of Standards and Technology (NIST) for a wide range of meters, gauges, and other NDT equipment used in various industries.



### RADIOGRAPHY

Item	Code	Frequency	Description	Price
C-RSM	State & NRC	6 Months	Radiation Survey Meters	Call for Pricing
C-ARM	State & NRC	12 Months	Alarming Rate Meters	Call for Pricing
C-PD			Pocket Dosimeters	Call for Pricing
C-PED	State & NRC	12 Months	Personal Electronic Dosimeter (PED)	Call for Pricing
SP*001503	ASME Sec. V	90 Days	Densitometer	Call for Pricing
SP*001557	ASTM E1390	Upon Repair	Certification of Light Intensity on Film Viewers per ASTM E1390	Call for Pricing
SP*001504	ASME Sec. V	12 Months	Certification of Density Step Tablet (All Brands)	Call for Pricing

## BLACKLIGHTS & LIGHT METERS

Item	Code	Frequency	Description	Price
SP*001650	EN ISO 3059	12 Months	Certification of Light Output	Call for Pricing
SP*001335	ASTM E1444 & E1417	6 Months	Calibration of a Dual Sensor Light Meter (Non-Programmable)	Call for Pricing
SP*001336			Calibration of a Single Sensor Light Meter (Non-Programmable)	Call for Pricing
SP*001527	ASME Sec. V, ASTM E3024 & E165	12 Months	Calibration of a Dual Sensor Light Meter (Non-Programmable)	Call for Pricing
SP*001528			Calibration of a Single Sensor Light Meter (Non-Programmable)	Call for Pricing
XR-1000/R	ASTM	6 or 12 Months (Depending upon ASTM)	Calibration of AccuMAX XR-1000 Read Out Unit	Call for Pricing
XDS-1000/R			Calibration of AccuMAX XDS-1000 Dual (UV-A / VIS) Light Sensor	Call for Pricing
XS-555/L/R	ASTM E1742	12 Months	Calibration of AccuMAX XS-555/L Luminance Sensor	Call for Pricing
XP-2000/R	ASTM	6 or 12 Months (Depending upon ASTM)	Calibration of AccuPRO XP-2000 Dual (UV-A / VIS) Sensor Light Meter	Call for Pricing
APOLLO/R	ASTM	6 or 12 Months (Depending upon ASTM)	Calibration of LABINO Apollo Series Light Meter	Call for Pricing

## MAGNETIC PARTICLE

Item	Code	Frequency	Description	Price
SP*001026	ASTM E1444 & E3024	6 Months	Yokes (All Makes & Models)	Call for Pricing
SP*001262	Customer	12 Months	Certification of 10 lb. Test Weight	Call for Pricing
SP*001021	ASTM E1444 & E3024	6 Months	Magnetic Particle Calibration (Bench or Portable Unit)	Call for Pricing
SP*001529	ASME Sec. V	12 Months		
SP*001154	ASTM E1444 & E3024	6 Months	Analog Magnetometer/Gaussmeter Calibration	Call for Pricing
SP*001645	ASTM E1444	6 Months	Electronic (Digital) Gaussmeter Calibration	Call for Pricing
SP*001646	ASTM E3024	12 Months		

## ULTRASONIC, HARDNESS & FERRITE TESTERS

Item	Code	Frequency	Description	Price
SP*001500	ASTM E317	12 Months	Calibration of an Ultrasonic Thickness Gauge	Call for Pricing
SP*001562	ASME Sec. V		Calibration of an Ultrasonic Flaw Detector	Call for Pricing
SP*001505	ASTM E797		Certification of Ultrasonic Thickness Step Wedges	Call for Pricing
SP*001456	ASTM E18 & A956		Certification of Hardness Tester	Call for Pricing
SP*002012	ASTM A799 / A799M-10		Calibration of Fischer Feritscope FMP 30 / DMP 30	Call for Pricing
SP*002013			Calibration of Fischer Ferrite Standard (Set of 5)	Call for Pricing

## SPECIAL SERVICES

### LED FILM VIEWER MODIFICATION

#### Anti-Corrosion Treatment



Item	Description	Price
SP*001710	Anti-Corrosion Treatment to NEW LED Film Viewer	Call for Pricing
SP*001710-USED	Anti-Corrosion Treatment to USED LED Film Viewer. Includes pre-existing corrosion clean and replacement (as required) of switches, cooling fans and dimmer.	Call for Pricing

*\*Modification is available for most make and model LED Film Viewers*

## PREVENTATIVE MAINTENANCE (PM)

QED offers customized Preventative Maintenance Services to minimize downtime and ensure quality inspections. Our detailed electronic PM records allow us to not only identify unusual machine wear but also operator misuse that could cause premature equipment failure or safety concerns.



## FILM PROCESSORS

Item	Brand	Model	Description	Price
SP*001510	CARESTREAM	M37 Plus	Clean Racks/Tanks with Systems Cleaners and Replace Filters - Check Racks, Drive, Dryer and Pumps for Missing or Worn Parts	Call for Pricing
SP*001455		M43IC		
SP*001359	GE (AGFA)	NOVA		Call for Pricing
SP*001337		M-ECO		
SP*001348		NDT-U		
SP*001454		NDT-Si		

*\*Above pricing is based upon PM being performed at Customer's location and does not include applicable travel expenditures*

## RADIOGRAPHIC CLEANER / ALGACIDE SYSTEM AND DOSING SOLUTION

► T2 Max Radiographic Cleaner - Safe for all industrial film processors. Cleans: developer, fixer, oxidation, silver, and algae deposits from rollers, tanks, webs, and transports in 3-5 minutes.

► EASY CLEAN Algae Pump System - A simple to use dosing system to inject Easy Clean Algae AD solution directly into a processor wash tank at programmed times and at the required dosage during the working day and night.

► EASY CLEAN Algae AD - Safe, Non-Toxic, Non-Corrosive, Bio-Degradable A highly concentrated, blend of unique cleaning agents. Rapidly breaks down the bio-film which causes slimy, clogging bio-slime. Regular use keeps wash/rinse water clean and fresh. Formulated for use with the Colenta automatic dosing pump system to place small quantities of additive into the wash tank at the selective times and at the required dosing rates during every 24 hour cycle.



Item	Description	Price
SP*001237	14" x 17" Processor Clean-Up Film, 100/Pack	Call for Pricing
3690	T2 Max Universal Radiographic Cleaner, 32oz. Spray Bottle	Call for Pricing
9050555	Colenta EASY CLEAN Anti-Algae Dosing Pump Assembly (230V from Processor)	Call for Pricing
9050502	Colenta EASY CLEAN Anti-Algae AD, 4 x 5 Liter Bottles	Call for Pricing

## IS-199 CHEMICAL MIXER

The ultimate automatic x-ray chemical mixer with the specific gravity control producing a consistent mix each and every time. The mixer responds to the addition of concentrated chemicals and adds the correct amount of water automatically. Includes a low level warning system. Over 15 years of proven reliability; all electronic components are chosen for dependability and straight forward circuitry eliminates the need for circuit boards for increased reliability.

#### Features:

- Specific Gravity Mixing System
- Rugged Field Tested Components
- Low Level Warning Systems
- Easy-to-Service Design
- UL/CSA Listed Power Supply
- 24 Volt Operation



**WHITE MOUNTAIN IMAGING**



*One Year Warranty on all Parts*

Item	Description	Capacity	Chemical Brand	Price
19945	IS-199 Chemical Mixer	12.5 Gallons	T2	Call for Pricing
19956-I		Developer	Carestream	
19960-I		&	AGFA	
19966-FNDT		Fixer	Fuji	

*\*Other Chemical Brand Options are available upon request.*

## FIELD SERVICE

### CALL-OUT RATES

The below rates are based off work being performed Monday - Friday (8AM-5PM). If work is needed to be performed outside of this time, then an Estimate will be provided.

Item	Description	Price
STT	Service Technician Travel	Call for Pricing
STL	Service Technician Labor	Call for Pricing

*\*A Four (4) Hour Labor (On-Site) Minimum applies for all local call-outs in addition to applicable Travel Time*



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