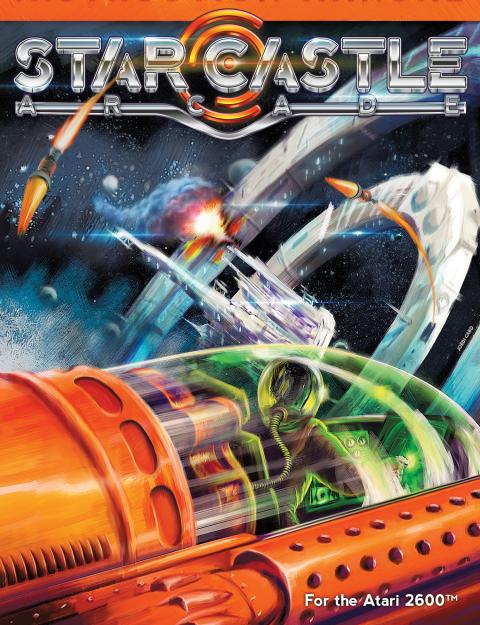
INSTRUCTION MANUAL





FOR CENTURIES THE FEUDAL STAR LORDS
HAVE CONTROLLED THE GALAXY FROM
THEIR IMPERETRABLE STAR CASTLES.
ONCE THEY WERE HAILED AS PROTECTORS
OF PEACE, NOW THEY SERVE ONLY TO
PLUNDER THE GALAXY OF ITS ENERGY AND
WEALTH. YOU HAVE ASSEMBLED A SMALL
FLEET OF SHIPS TO DESTROY THE STAR
CASTLES AND RID THE GALAXY OF THEIR
SCOURGE. HOW THEY LAUGHED WHEN THEY
HEARD OF YOUR PLANS, OH HOW THEY
LAUGHED!



Always turn the console **POWER** switch **OFF** when inserting or removing an ATARI Game Program cartridge. This will protect the electronic components and prolong the life of your ATARI 2600 Video Computer System.

RAPORNOPINA CORTECIANO



- INTRODUCTION----
- GAMEPLAY-----
- GAME-CONTROL----
 - SCORING-----
- GAME-OPTIONS ----
- HIGH-SCORE-TABLE
 - DEVELOPMENT-STORY
 - HOMEBREWS----



STAR CASTLE ARCADE IS AN ATARI 2600 VERSION OF THE CLASSIC CINEMATRONICS ARCADE GAME. THE OBJECTIVE OF THE GAME IS SIMPLE: DESTROY THE STAR CASTLES, COLLECT AS MANY POINTS AS YOU CAN, AND SURVIVE FOR AS LONG AS POSSIBLE.

CAMBEBAXZX

EACH STAR CASTLE IS FIXED AT THE
CENTER OF THE SCREEN. THE CASTLE IS
PROTECTED BY THREE ROTATING ENERGY
RINGS. EACH RING CONSISTS OF TWELVE
SEGMENTS, WHICH CAN BE INDIVIDUALLY
CLEARED WHEN HIT TWICE BY YOUR SHIP'S
MISSILES. BEWARE THAT COMPLETELY
ELIMINATING THE OUTER RING WILL CAUSE
THE REMAINING ENERGY RINGS TO EXPAND
OUTWARDS, AND A NEW INNER ENERGY RING
WILL BE GENERATED.

STAR CASTLES ARE DEFENDED BY THREE HOMING MINES, WHICH WILL KILL YOUR SHIP ON CONTACT. THESE MINES WILL FOLLOW YOUR SHIP AROUND THE SCREEN UNTIL THEY RUN OUT OF FUEL OR YOU SHOOT THEM. THE STAR CASTLE CAN BE DESTROYED BY A SINGLE MISSILE HIT ON THE CENTRAL GUN THROUGH A GAP IN THE RINGS. BUT BEWARE! ONCE SUCH A GAP HAS BEEN MADE, THE GUN WILL BE ABLE TO SHOOT DEADLY ENERGY BOLTS AT YOUR SHIP!

YOU BEGIN THE GAME WITH THREE SHIPS,
AND AN EXTRA SHIP WILL BE AWARDED FOR
EACH STAR CASTLE THAT YOU DESTROY.
THE STAR CASTLES WILL BECOME MORE
AND MORE AGGRESSIVELY DEFENDED AS
YOU PROGRESS THROUGH THE GAME!

CAMERICORITROS

SCORIBCZX

Plug your joystick controller into the **LEFT CONTROLLER** port.



Press the **FIRE** button on the joystick to begin a new game.



LIP

Hold the joystick in the **UP** position to accelerate your ship in the direction that it is facing.

- LEFT -

Hold the joystick in the **LEFT** position to rotate your ship anti-clockwise.



- RIGHT -

Hold the joystick in the **RIGHT** position to rotate your ship clockwise.

FIRE-

Press the **FIRE** button on the joystick to shoot a missile from the front of your ship.

ON AN ATARI 2600

The game can be paused by sliding the **COLOR/BW** switch to the **BW** position. The game will resume when the switch is returned to the **COLOR** position.



ON AN ATARI 7800

Press the **PAUSE** button once to pause the game, and again to resume the game.

PAUSE

To abandon a game and return to the title screen, press the **RESET** switch.

POINTS ARE AWARDED AS FOLLOWS:

OUTER RING - 10 POINTS PER SEGMENT DESTROYED.

MIDDLE RING - 20 POINTS PER SEGMENT DESTROYED.

INNER RING - 30 POINTS PER SEGMENT DESTROYED.

STAR CASTLE - 1440 POINTS WHEN DESTROYED, PLUS AN EXTRA SHIP.

NO POINTS ARE AWARDED FOR DESTROYING THE HOMING MINES.

DUTER RING
MIDDLE RING
INNER RING
STAR CASTLE

HOMING MINES_



0



Note that changes to the difficulty switch settings will only take effect when you begin a new game.



ROCERSODREZ TABDES DE LA COMPENSION DE L



At the end of the game, you may be prompted to enter your initials into the high score table

Hold the joystick **UP** or **DOWN** to change the currently selected initial.

Hold the joystick **LEFT** or **RIGHT** to select the next or previous initial.



Pressing **FIRE** will save your initials into the high score table.

There is a separate high score table for each combination of difficulty switches. The game type shown at the top of the high score table relates to the following difficulty switch settings:



WARNING

Star Castle Arcade will store high scores permanently on the game cartridge. Do not switch off the console or unplug the cart immediately after entering your initials on the high score table. Doing so may cause the saved scores to become corrupt.

It is safe to switch off the console when the title screen is showing.

To reset all of the saved scores, hold the joystick **RIGHT** and then press

FIRE during the Champ Games start-up screen.

STAR-CASTLE-ARCADE-



EVERY COMPUTER GAME HAS A STORY - THIS IS THE STORY OF STAR CASTLE ARCADE FOR THE ATARIZEDO.

STAR CASTLE ARCADE HISTORY

THE ORIGINAL STAR CASTLE ARCADE GAME WAS RELEASED IN 1980 BY CINEMATRONICS. THE GAME WAS DESIGNED BY TIM SKELLY AND PROGRAMMED BY SCOTT BODDEN, AROUND 14,000 STAR CASTLE ARCADE CABINETS WERE PRODUCED, AND AROUND 150 ARE KNOWN TO STILL EXIST.

CINEMATRONICS ARE PROBABLY BEST KNOWN FOR PRODUCING THE CARTOON
GAMES ORAGONS LAIR (1983) AND SPACE ACE (1984). THEY ARE ALSO WELL
KNOWN AMONG ARCADE FANS FOR THEIR EARLIER ARCADE GAMES USING
WECTOR DISPLAY TECHNOLOGY, DURING THE VECTOR ERA, FROM 1938
THROUGH 1983, CINEMATRONICS RELEASED 15 ARCADE GAMES USING VECTOR
DISPLAY TECHNOLOGY, INCLUDING CLASSICS SUCH AS RIP OFF, ARMOR
ATTACK, AND OF COURSE STAR CASTLE. ALL OF THESE GAMES HAD NEARLY
TO THE REQUIREMENTS OF EACH SAME.

WITH VECTOR DISPLAY TECHNOLOGY, SHAPES ARE DRAWN DIRECTLY ON THE TUBE BY THE ELECTRON GUN. THIS GIVES VECTOR GAMES A VERY DISTINCTIVE APPEARANCE, AS THE GAME OBJECTS HAVE ESSENTIALLY UNLIMITED RESOLUTION. THE GAMES HAVE A CRISP ANALOGUE APPEARANCE, WITH SMOOTH ROTATION AND NO TO SEED EDGES. UNFORTUNATELY VECTOR DISPLAY TECHNOLOGY CANNOT EASILY SHOW COLOUR, SO GAMES LIKE STAR CASTLE RELY ON COLOUR OVERLAYS FIXED TO THE FRONT OF THE SCREEN.

VECTOR GAMES REQUIRE AN EXPENSIVE TUBE AND SUFFER FROM VISIBLE FLICKER WHEN MANY OBJECTS ARE DRAWN ON THE SCREEN. AS A RESULT, VECTOR DISPLAY TECHNOLOGY IN THE ARCADES WAS QUICKLY REPLACED BY RASTER-SCAN TECHNOLOGY, WHICH ITSELF IS NOW BEING RAPIDLY MADE OBSOLETE BY DIGITAL LED/LCD DISPLAY TECHNOLOGY.

FOR CINEMATRONICS, THE VECTOR ERA CAME TO AN END IN 1983, AND AFTER A LENGTHY BANKRUPTCY THE COMPANY WAS DISMANTLED IN 1983.

THE STORY OF STAR CASTLE ON THE ATARI 2500 VCS BEGINS IN 1981 WITH HOWARD SCOTT WARSHAW, WHILE WORKING FOR ATARI, HE WAS ASSIGNED THE TASK OF PRODUCING A CONVERSION OF STAR CASTLE FOR THE CUS. BUT HE SOON DECIDED THAT A STRAIGHT PORT OF THE GAME WOULD NOT BE POSSIBLE. INSTEAD, HE WAS INSPIRED TO WRITE YARS' REVENGE, WHICH HAS SOME VISUAL SIMILARITIES TO STAR CASTLE, BUT VERY DIFFERENT GAME-PLAY. THE STORY OF STAR CASTLE ON THE VCS WOULD END AT THIS POINT WERE IT NOT FOR THE EFFORTS OF ENTHUSIASTS NEARLY 30 YEARS

STAR CASTLE ON THE VCS

THE ATARI 2600 VCS HAS A LARGE CATALOGUE OF ARCADE PORTS, BUT THERE ARE ALSO MANY GAPS WHERE ARCADE GAMES DID NOT MAKE IT TO THE VCS. SOME OF THESE PORTS WERE PLANNED FOR RELEASE ON THE VCS, BUT ABANDONED DURING THE VIDEO GAME CRASH OF 1983. A FEW OF THESE ARCADE PORTS HAVE SINCE BEEN UNEARTHED AS PARTIALLY COMPLETED PROTOTYPES (E.G. TURBO AND IXION), WHILE OTHERS (E.G. 200 KEEPER) REMAIN AS RUMOURS BASED ON MAGAZINE ARTICLES AND PRESS RELEASES. FOR GAMES LIKE STAR CASTLE AND ROBOTRON, PORTING WAS SIMPLY DEEMED TOO TECHNICALLY CHALLENGING FOR THE VCS AND A DIRECT PORT WAS NOT ATTEMPTED.

THE VCS STILL HAS A LARGE COMMUNITY OF FOLLOWERS, SOME OF WHOM WRITE GAMES FOR THE CONSOLE. THESE ARE ENTHUSIASTS WHO SPEND COUNTLESS HOURS OF THEIR SPARE TIME TO KEEP THE VCS CONSOLE ALIVE, LONG AFTER ITS COMMERCIAL SHELF LIFE HAS EXPIRED. THANKS TO THE INTERNET, AND THE ATARIAGE WEBSITE IN PARTICULAR, THESE ENTHUSIASTS OFTEN WORK TOGETHER, THOUGH MANY OF THEM WILL LIKELY NEVER MEET IN REAL LIFE. SOME ARE INTERESTED IN FILLING THE GAPS IN VCS CATALOGUE AND HAVE PORTED MISSING ARCADE TITLES, SUCH AS LADY BUG, STAR FIRE, COLONY 3, JUNO FIRST, ETC.

PORTING AN ARCADE TITLE TO THE UCS IS NOT A STRAIGHTFORWARD TASK.
THE UCS IS A VERY LIMITED PLATFORM AND THE ARCADE MACHINES HAVE
MANY TIMES MORE PROCESSING POWER. A PORT GENERALLY TAKES A
MINIMUM OF A YEAR OF EFFORT TO COMPLETE. THE KEY TO A SUCCESSFUL
PORT IS CAPTURING THE ESSENCE OF THE ARCADE GAME WITHIN THE
LIMITATIONS OF THE UCS. FOR STAR CASTLE ARCADE, THE UCS IS INCAPABLE
OF VECTOR GRAPHICS, BUT FLICKER IS USED CLEVERLY IN PLACES TO GIVE
THE GAME THE LOOK AND FEEL OF VECTORS.

STAR-CASTLE-HOMEBRIEWS

THE FIRST ENTHUSIAST-DRIVEN ATTEMPT TO PORT ACROSS STAR CASTLE TO THE VCS WAS ANNOUNCED BY TROGODR IN DECEMBER 2005, CALLED STELLAR FORTRESS. HIS VERSION USED LOW RESOLUTION PLAYFIELD GRAPHICS TO DRAW THE RINGS. NEW FEATURES WERE ADDED UP TO MAY 2008 BUT SADLY THE GAME WAS NEVER FULLY PLAYABLE AND TROGODR MOVED ON TO OTHER PROJECTS.

IN AUGUST 2008, JOHN PRYSON POSTED A DEMO TO HIS BLOG SHOWING THAT THE RINGS COULD BE DRAWN USING HIGH RESOLUTION SPRITE GRAPHICS.
HOWEVER, HE DID NOT DEVELOP THE DEMO FURTHER AND MOVED ON TO OTHER PROTECTS TOO. MANY OF THE TECHNIQUES THAT WERE EVENTUALLY USED IN STAR CASTLE ARCADE, SUCH AS THE MULTI-COLORED RINGS, WERE INSPIRED BY THIS DEMO.

THE NEXT ATTEMPT WAS IN 2009 BY D.SCOTT WILLIAMSON, A FORMER ATARI
LYNX PROGRAMMER. HE WAS INSPIRED TO ATTEMPT THE PORT, BASED ON
THE STORY OF YARS' REVENGE IN THE BOOK "PROLING THE BEAM: THE ATARI
WIDEO COMPUTER SYSTEM (2008)". HE WORKED IN SECRET FOR AROUND A
YEAR, FINALLY REVEALING THE COMPLETED GAME AT THE 2010 VIDEO GAME
SUMMIT IN CHICAGO. HOWEVER, HE DID NOT PLAN TO RELEASE THE GAME TO
THE COMMUNITY AT THIS POINT, AND ENCOURAGED OTHER PROGRAMMERS TO
REPLICATE HIS FEAT.

A FURTHER DEMO OF STAR CASTLE ON THE VCS WAS POSTED TO AN ATARIAGE BLOG BY THOMAS JENT2SCH IN JULY 2010. HE DETERMINED HOW D. SCOTT HAD WRITTEN HIS PORT, AND REVERSE-ENGINEERED THE RING-DRAWING TECHNIQUE, BASED PURELY ON VIDEO FOOTAGE. HOWEVER, THIS WAS JUST FOR TECHNICAL CURIOSITY AND HE DID NOT INTEND TO PRODUCE A FULL PORT AT THAT TIME.

THE FIRAL ATTEMPT AT A STAR CASTLE PORT WAS STARTED BY CHRIS WALTON IN DECEMBER 2011. HE WAS ALSO INTERESTED IN THE TECHNICAL CHALLENGE AND PRODUCED A QUICK DEMO, INSPIRED BY THE PREVIOUS EFFORTS. THE RING DRAWING CODE WAS COMPLETED IN AROUND A WEEK, AND A DEMO POSTED TO HIS ATTARIAGE BLOG. HE DID NOT INTEND TO ATTEMPT A COMPLETE PORT, BUT THE COMMUNITY RESPONSE WAS SO ENCOURAGING THAT HE CONTINUED WITH THE PROJECT.

OVER THE NEXT FEW MONTHS, THE CORE GAME WAS COMPLETED AND A PLAYABLE VERSION WAS UPLOADED TO THE ATARIAGE WESSITE IN MARCH 2012. CHRIS WALTON WAS ASSISTED BY NATHAN STRUM, WHO PROVIDED THE SAME GRAPHICS, IVAN MACHADO WHO PRODUCED THE GAME SOUND EFFECTS, AND RICHARD "KULDR" ARMITO WHO SUPPLIED THE TITLE MUSIC.

THE TWO VERSIONS OF STAR CASTLE ARE RATHER DIFFERENT: D. SCOTT KEPT WITHIN THE 8K LIMITATION COMMON TO ATARIVES GAMES OF THAT TIME. CHRIS USED 28K AND EXTRA RAM TO INCLUDE FEATURES SUCH AS MULTI-COLOURED RINGS, EXPLOSION EFFECTS, TITLE MUSIC, A SPLASH SCREEN, AND A HIGH-SCORE TABLE.

IN MAY 2012, D. SCOTT DECIDED TO START A KICKSTARTER PROJECT, SO THAT HIS GAME COULD SEE A LIMITED RELEASE TO THE COMMUNITY. THE RESPONSE WAS VERY ENTHUSIASTIC, AND THE FUNDING GOAL WAS QUICKLY REACHED. HE USED THE FUNDING TO BUILD CUSTOM CIRCUITRY AND CASES FOR THE GAME, AND RELEASED THE GAME TO SEVERAL HUNDRED BACKERS A FEW MONTHS LATER.

AT THIS POINT, CHRIS WAS CLOSE TO COMPLETING HIS OWN STAR CASTLE ARCADE PORT, BUT THERE WERE BLOCKERS BOTH TECHNICALLY AND IN REAL-LIFE. HE HAD CHANGED TO A MORE CHALLENGING JOB, AND THE BIRTH OF HIS DAUGHTER WAS IMMINENT, SO HE HAD LITTLE SPARE TIME TO WORK ON THE GAME. ALSO, THE GAME HAD REACHED THE TIMING LIMITS OF THE VCS AND IT DID NOT SEEM POSSIBLE TO PROVIDE THE GAME WITH PERFECT COLLISION DETECTION. FORTUNATELY, AT THIS POINT THOMAS JENT2SCH STEPPED-IN AND AGREED TO TAKE OVER THE PROGRAMMING OF THE GAME.

TOGETHER WITH ANDREW DAVIE, THOMAS HAD PREVIOUSLY WORKED ON A NOVEL TIME-SLICING TECHNIQUE FOR THE BOULDER DASH VCS PORT. THIS TECHNIQUE WOULD BE PERFECT TO OVERCOME THE TIMING LIMITS THAT WERE AFFECTING STAR CASTLE. MOST VCS GAMES PERFORM ALL OF THEIR CALCULATIONS ON EVERY FRAME, 60 TIMES A SECOND. WITH TIME-SLICING, THE GAME CALCULATIONS MAY BE SPREAD ACROSS SEVERAL FRAMES. HOWEVER, USING THIS TECHNIQUE WOULD REQUIRE AN ALMOST COMPLETE REWRITE OF THE STAR CASTLE GAME CODE.

UNDETERRED BY THE EFFORT REQUIRED, THOMAS SPENT THE NEXT YEAR
REWORKING STAR CASTLE TO USE AN IMPROVED VERSION OF HIS TIME-SLICING
TECHNIQUE. AN ADDED BONUS OF USING TIME-SLICING WAS THAT IT
ALLOWED HIM TO INCLUDE MANY MORE FEATURES FROM THE ARCADE
VERSION. THE END RESULT WAS A VERY CLOSE MATCH TO THE ARCADE
VERSION, AND SO THE GAME WAS NAMED "STAR CASTLE ARCADE".







THE STORY OF STAR CASTLE ON THE UCS ENDS AT THIS POINT. THERE ARE
NOW TWO COMPLETE VES PORTS, QUITE DIFFERENT FROM EACH OTHER. THE
STAR CASTLE ARCADE PORT TOOK NEARLY 3 YEARS TO COMPLETE AND WAS
A TRULY INTERNATIONAL COLLABORATION: THE GAME CODE WAS WRITTEN
BY CHRIS WALTON FROM SCOTLAND, AND THOMAS JENTZSCH FROM
GERMANY. THE GAME GRAPHICS WERE SUPPLIED BY NATHAN STRUM FROM
THE USA. THE CARTRIDGE LABEL, BOX ART AND MANUAL WERE CRIFTED BY
JERDI CABO FROM CATALONIA. THE SOUND EFFECTS WERE DEVISED BY IVAN
MACHADO FROM BRAZIL. THE MELODY CARTRIDGE ON WHICH THE GAME IS
STORED WAS DESIGNED AND BUILT BY FRED QUIMBY FROM THE USA.
FINALLY, THE GAME WAS PACKAGED AND RELEASED BY ALBERT YARUSSO,
THE OWNER OF THE ATARIAGE WEBSITE, ALSO IN THE USA. TOGETHER, THIS
GROUP IS KNOWN AS TEAM ANTONYM.
AS OF 2024 STAR CASTLE ARCADE IS PUBLISHED BY CHAMP GAMES.

STELLAR FORTRESS

HTTPS://FORUMS.ATARIAGE.COM/TOPIC/80348-STELLAR-FORTRESS/

TOHN PAYSON DEMO

HTTPS://FORUMS.ATARIAGE.COM/BLOGS/ENTRY/5136-STAR-CASTLE-ANYONE/

THOMAS JENTZSCH DEMO

HTTPS://FORUMS.ATARIAGE.COM/8LOGS/ENTRY/3235-STAR-CASTLE-BRAINSTORMING/

CHRIS WALTON DEMO

HTTPS://FORUMS.ATARIAGE.COM/BLOGS/ENTRY/8769-STAR-CASTLE-KERNEL/

KICKSTARTER

HTTPS://KICKSTARTER.COM/PROJECTS/698759745/ATARI-2600-STAR-CASTLE

GREDITS

GAME PROGRAMMING: CHRIS WALTON AND THOMAS JENTZSCH

GAME ARTWORK AND ARCADE MODEL:

SOUND EFFECTS: IVAN MACHADO AND THOMAS JENTZSCH

TITLE MUSIC: RICHARD "KULOR" ARMIJO

CART LABEL, BOX AND MANUAL: JORDI CABO

CART HARDWARE: FRED QUIMBY

PUBLISHING: CHAMP GAMES

STAR CASTLE ARCADE WOULD NOT HAVE BEEN POSSIBLE WITHOUT THE HELP AND SUPPORT OF THE GREAT FOLKS ON ATARIAGE WWW.ATARIAGE.COM

STAR CASTLE ARCADE MAY NOT BE REPRODUCED OR DISTRIBUTED WITHOUT PERMISSION.









THIS SHIP HAS BEEN ASSEMBLED BY TEAM ANTONYM

MEETS REBEL FLEET REGULATIONS FOR SPACE SHIPS

DURING THE CHAMP GAMES LOGO

PROPER BRIGHTNESS CALIBRATION

If you hold the joystick **LEFT** and then press **FIRE**, a simple brightness calibration screen shows up. At this screen you should adjust contrast and brightness, so that you can see and distinct all 8 bars. You leave the screen by pressing **RESET**.

ERASE HIGH SCORES

If you hold the joystick **RIGHT** and then press **FIRE**, a simple menu shows up which allows you to wipe the high scores. With joystick **UP** and **DOWN** you select one entry and then press **FIRE**.



Published by:

WWW.<mark>CHRMP.GRMES</mark>