

Hi Tech Systems Ltd

Array overview

**INNOVATIVE DEVELOPER AND MANUFACTURER OF BROADCAST PRODUCTION,
PLAY-OUT AND FACILITY WIDE CONTROL SYSTEMS**

Sept 2022

Hi Tech Systems overview

Hi Tech Systems is a UK based manufacturer of control systems for the broadcast television industry and has been designing and building control systems since the 1990s. The company was established by its founder and managing director Tom Favell who continues to lead the organisation.

Target customers are TV broadcasters, service providers, and cable and satellite operators. Products are operator focused and designed to be flexible, reliable and scalable. A range of control systems are available from simple 1 or 2 channel control to facility wide solutions. The company's innovative solutions manage ingest and multi-channel playout workflows around the world.



Array Control Panel Details

OLED KEYS

Well spaced OLED keys with user assignable graphics and text and programmable with RGB illuminations.

OPTIONAL WHEEL OR T-BAR

Weighted wheel with padded centre grip - programmable for jog, shuttle and variable playback functions.
T-bar for smooth slo-mo playback, programmable for speed range and resolution.

OPTIONAL STATUS DISPLAY

High resolution OLED display for timecode, channel selection, system information.

RGB KEYS

Well spaced, tactile and programmable RGB keys.

OPTIONAL WHEEL OR T-BAR

Weighted wheel with padded centre grip - programmable for jog, shuttle and variable playback functions.
T-bar for smooth slo-mo playback, programmable for speed range and resolution.

OPTIONAL STATUS DISPLAY

High resolution OLED display for timecode, channel selection, system information.

BUTTON FUNCTION DISPLAY

Crystal clear OLED display with user assignable graphics and text.

MULTI-DIRECTIONAL WHEEL

6 way multi directional wheel. User programmable for multiple functions.

DATA BUS

Recessed connector for power and data transfer between Array surfaces using the supplied data bus connector card.

CONTEMPORARY DESIGN

Case is made from steel with machined aluminium side panels and display bezel with a highly durable finish. Ergonomic design with tapered sides.

CONNECTOR POD

Cable interface for DC power input socket, bi-directional USB and RJ45 network connectors. Only one required for an Array system.

SOFT PUSH ON / OFF SWITCH

POWER ON INDICATOR

REAR STAND

Cable slot for strain relief and cable retainer with rubber non-slip base.

UNDER CASE ILLUMINATION

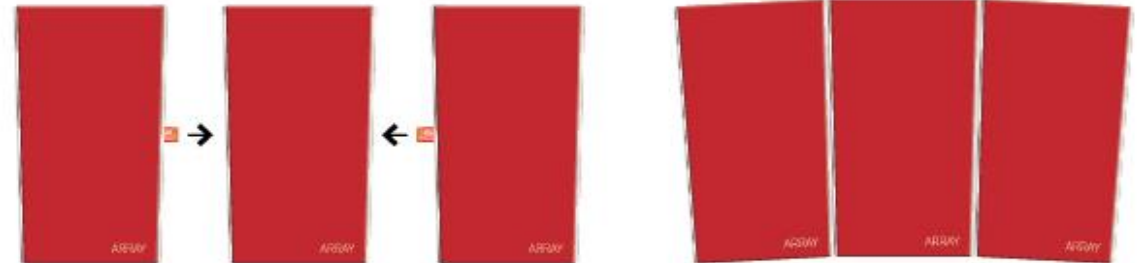
MAGNETIC LOCK
Hidden magnets hold Array surfaces together.



Array Control Panel Details

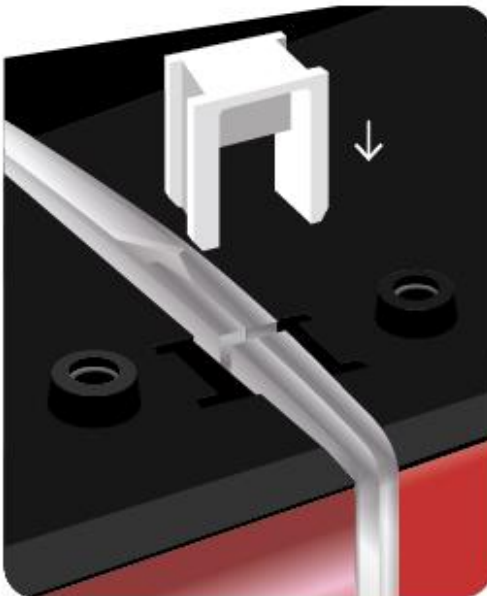
Assembly of two or more Array panels

Insert the supplied data bus card(s) and push the panels together to form an Array Surface. An Array Surface can comprise up to four panels and requires just one power input and data connection through either a Connector pod or Computer base. Panels can be arranged in any order to suit the user's needs.



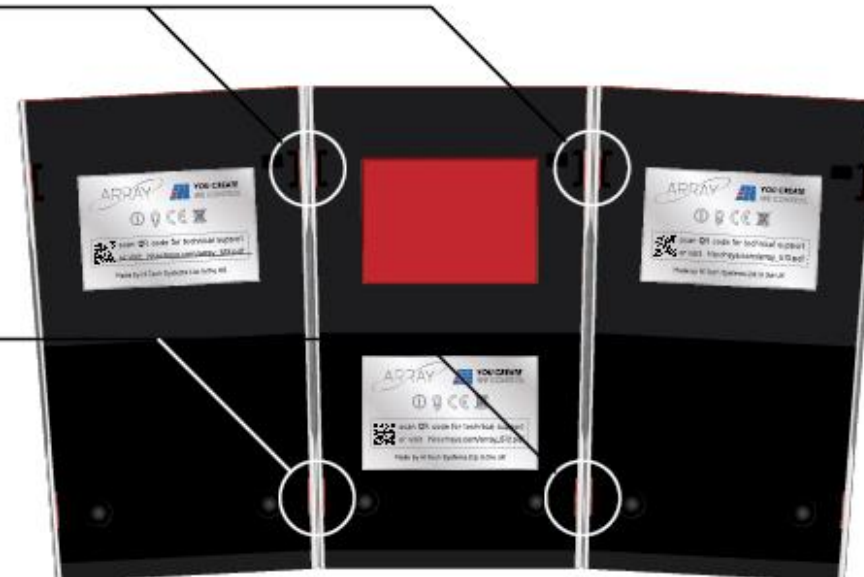
'H lock'

Panels are joined by hidden magnets and a discreet 'H lock' to create a rigid mechanical structure. Carefully turn the Array Surface face down onto a soft surface and slide the 'H locks' into the circled positions shown in the illustrations below.



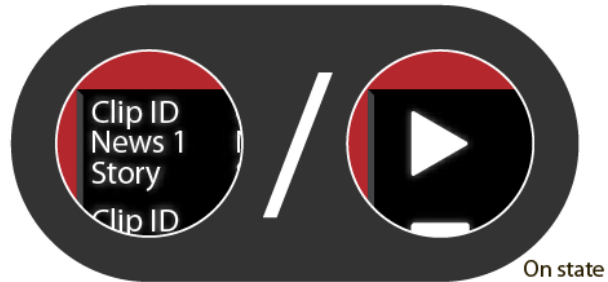
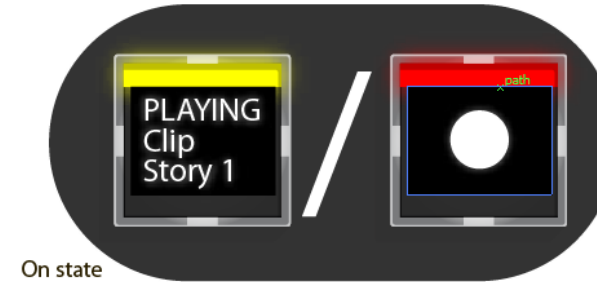
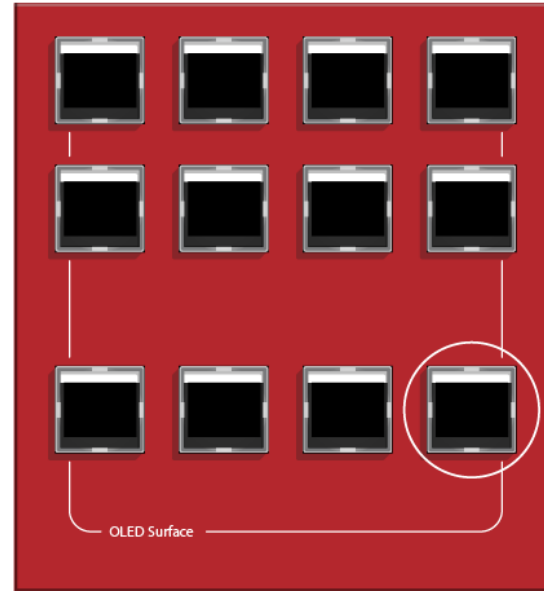
Short 'H lock'

Long 'H lock'

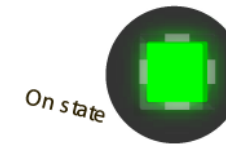
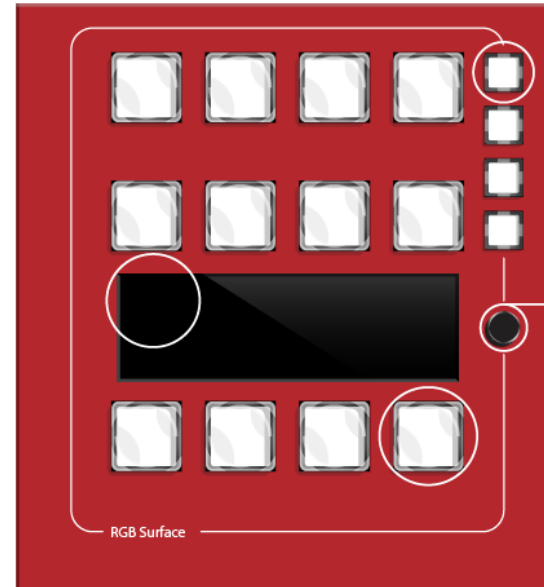


Array Control Panel Details

Twelve bright and clear OLED keys. Programmable with text (up to three lines of seven characters) or a graphic (up to 60 x 32 pixels) and illuminates with RGB LEDs with seven colour variations.

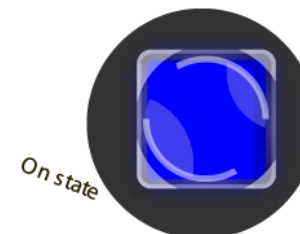


Bright and clear OLED display is divided into eight sections for labeling the functionality of the closest RGB key. Programmable with text (21 characters over 3 lines) or a graphic (60 x 32 pixels).



Four programmable tactile green LED keys.

Multi function four way switch, rotary encoder and centre push switch.

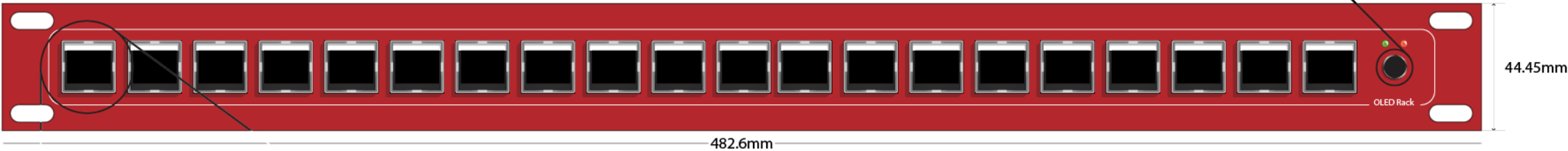


Twelve tactile RGB keys. Each programmable with seven colour variations.

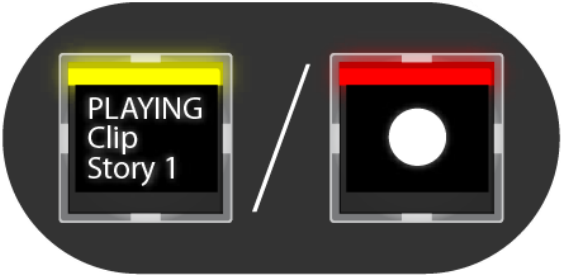
Array Control Panel Details

OLED Rack

Multi function four way switch, rotary encoder and centre push switch.



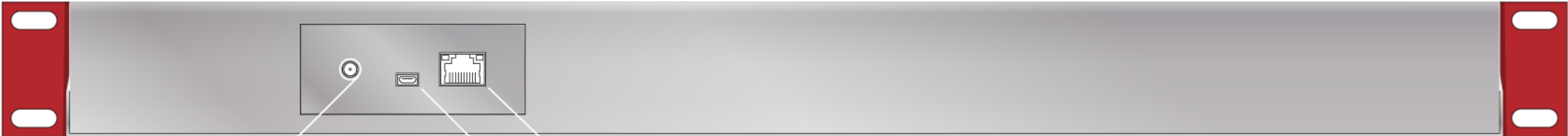
On state



Twenty bright and clear OLED keys. Programmable with text (up to three lines of seven characters) or a graphic (up to 60 x 32 pixels) and illuminates with RGB LEDs with seven colour variations.



Back view

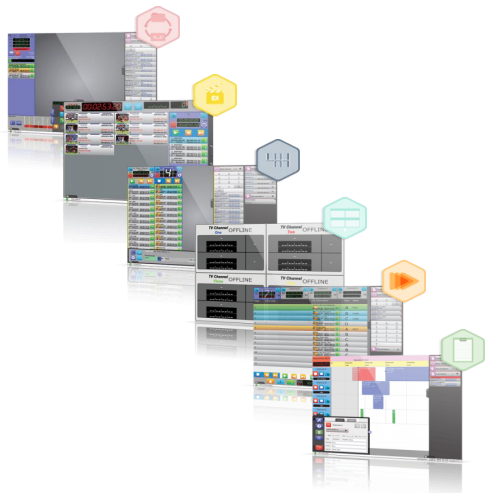


12V DC input Micro USB port Network port

Hi Tech Systems Technology



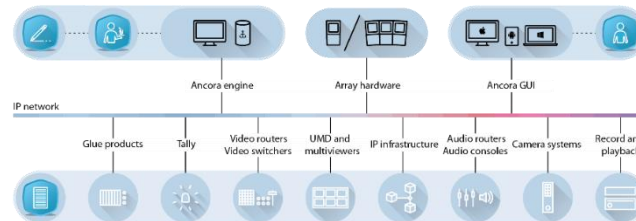
Avita is a system of software applications encompassing ingest, play out, scheduling, News & Sports and works with any professional video server. Array control panels can be fully integrated into an Avita system.



Array is a range of control panels that can be combined together to form a control surface to suit a multitude of workflows. Works with Ancora and Avita software and with third party applications.



Ancora is a facility wide system for controlling, managing and monitoring production and infrastructure equipment. Features a software package to design workflow, GUIs and hardware panel controllers as well as provide a common user interface for all connected equipment.



The Altus HT252 and HT262 hardware control panels feature compact control of two server ports with clip management tools to make the most of a server's record and replay capabilities. Operators no longer have to rely on a front panel user interface to select, load and play clips in a live environment – which can be fraught with disaster



Solution Types

Simple



Altus: Basic control panel for 1 or 2 video server channels

Intermediate



Avita: Software applications that run on Array control panels

Complex

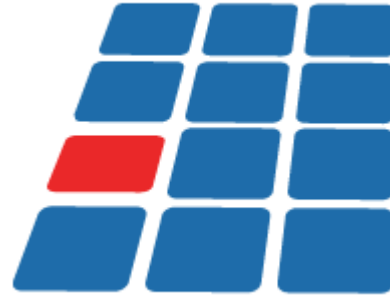


Ancora: facility-wide control that works with Array control panels



Array: Configurable hardware control panels for Avita and Ancora

Hi Tech Systems 2022



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We take the technical complexity from the operator and put it in the back room