UTC Aerospace Systems’ TSCHW-121-BN1-x, 12.1” Integrated Touch Screen / HD Widescreen Monitor, offers total entertainment and cabin management control through a touch sensitive thin film transistor liquid crystal display without the need for any additional “boxes”. The TSCHW-121-BN1-x Integrated Touch Screen / HD Widescreen Monitor is capable of accepting 3G-SDI, 1080p high definition video, and displaying full color graphics at 1920 x 1080p resolution. In addition, a graphics overlay will be displayed on the TSCHW-121-BN1-x, with the ability to blend the video and graphics.

These Integrated Touch Screen / HD Widescreen Monitors incorporate an IEEE 802.3 compliant Ethernet interface for communication purposes to other network-connected devices. The TSCHW-121-BN1-x allows control of the cabin system by simply “touching” the graphic images created for the display. “Touching” these graphic images sends commands over the network to modules that control audio/video systems, galley functions, lighting, temperature, seating controls, and etc. The design of the graphic images is specific to a particular aircraft based on the desires of the customer or designer.

This 12.1-inch Integrated Touch Screen / HD Widescreen Monitor complements UTC Aerospace Systems’ complete family of IFE/CMS products. Celebrating over 25 years as one of the nation’s largest independent provider of in-flight customized entertainment, on-board communications, and cabin management systems for the head-of-state and business aircraft industry. We are recognized as the industry innovator and solutions provider. We work on a daily basis with multiple OEMs, modification centers, and independent owner operators throughout the aviation market.

Our in-house Program Management and Systems Engineering Teams oversee and produce integration solutions covering airframes from Large “Big-Iron” to the Very Light Jet. We have expert Electrical, Mechanical, and Software design Engineering Teams that are located “in-house” to provide you with timely results and cutting edged products & components. All of these Teams have extensive experience in developing CMS/IFE products and offerings.

We have a FAA Certified Repair Station on site as well as several locations world-wide. Our Product Support Teams travel world-wide to solve any issue and to support our product after the sale. Our Quality Team performs Systems Testing from component level testing to an entire system’s test before shipment. This ensures the “out-of-the-box” performance and quality that our customers demand.
Air Intake Holes
Keep Clear

Air Exhaust Holes
Keep Clear

P1 WIRING DESCRIPTION
1 +28VDC POWER INPUT 
2G ROUND 
3E ETHERNET RX+ 
4 ETHERNET RX- 
5E ETHERNET TX+ 
6E ETHERNET TX- 
7R RESERVED 
8R RESERVED 
9S SUSPEND IN 
10 ID0 
11 ID1 
12 ID2 
13 ID3 
14 ID COMMON 
15 RESERVED

P2 WIRING DESCRIPTION
13 G-SDI P 
23 G-SDI RETURN

P3 WIRING DESCRIPTION
1 HDMI RX2 P 
2 HDMI RX2 SHIELD 
3 HDMI RX2 N 
4 HDMI RX1 P 
5 HDMI RX1 SHIELD 
6 HDMI RX1 N 
7 HDMI RX0 P 
8 HDMI RX0 SHIELD 
9 HDMI RX0 N 
10 HDMI CLK P 
11 HDMI CLK SHIELD 
12 HDMI CLK N 
13 HDMI CEC 
14 RESERVED 
15 DCC CLK 
16 DCC DATA 
17 DCC/CEC GND 
18 PWR5V 
19 HPD

Electrical -
Power: 0.75 A @ +28 Vdc
Resolution: 1920 X 1080p
Contrast Ratio: 700:1
Video Input: 3G-SDI and HDMI

Physical -
Weight: 5.1 lb / 2.31 kg
Dimensions: 12.00" x 1.82" x 7.49" (cutout)
30.48 x 4.62 x 19.02 cm