

## TETRA RDU 17HB1200

Universal Sunlight Readable Display



- 17" SXGA Resolution
- 1200 NIT Luminance
- 100:1 Dimming Range
- RGB Video Input
- Component Video Input
- NTSC/PAL/SECAM Inputs
- S-video Input
- Continuous Outdoor Use



## CONTACT

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The RDU provides full sunlight readability with 1200 nit luminance and a wide range of universal inputs. It is designed for extended outdoors operation in full direct sunlight while providing very high contrast in adverse viewing conditions. The fast response DBEF-enhanced TFT screen displays high speed video images without smearing or ghosting. Full 100:1 dimming range can be digitally controlled or via a continuously variable brightness knob. Manual display controls are available via pushbutton or remote IR controls and RS232 computer control is available.

## TETRA RDU 17HB1200

## SPECIFICATIONS

## PHYSICAL CONFIGURATION

- Chassis constructor: Rugged Electro-Magnetic Shielded All-Metal Chassis with front panel grab handles
- Cooling: Hi volume fans, filtered air intake  
Color: Low Sun Loading White
- Dimensions: 17" (W) x 15" (H) x 3.25" (D)
- Weight: 15 lb.
- Grab handles: Standard 6" wide instrument grab handles on front and top of unit
- Rain & Dust Protection: Sealed front/rear panel & case seams, filtered air inlet & exhaust, replaceable/cleanable filter.
- Positioning: Free standing vertical or horizontal, tilt bale for angled viewing

## SYSTEM INPUTS

- Analog RGB: 75Hz at SXGA, WXGA, XGA, SVGA, VGA. With auto detect of Digital Separate Sync, Sync-On-Green & Composite Sync. Auto detects VGA-SXGA, interlaced & non-interlaced.
- Video: NTSC, PAL/SECAM (Interlaced), Composite Video, \*S-video, RGB Video, Component Video (YCrCb)

## LCD DISPLAY

- Display Size: 17" TFT LCD
- Display Resolution: SXGA (1280 x 1024) Resolution
- Display Protection: Impact shield, with LCD cooling channel
- LCD Screen Luminance: 1,200 Cd/m<sup>2</sup> (NIT) LCD in OFF state (normally White) Full direct sunlight readability
- Luminance Uniformity: 20% or better
- Luminance Dimming Ratio: 200:1
- Luminance Control: 64 levels via pushbutton control or continuously variable lumonance knob.
- Typical LCD Contrast Ratio: 600:1 White vs. Black (measured in the dark along the normal direction)
- Half Brightness Life: 25,000 Hours, operated at maximum lamp luminance
- Typical Viewing Angles:
- 3:00 direction: > 70° (Contrast ratio ≥10)
  - 9:00 direction: > 70° (Contrast ratio ≥10)
  - 6:00 direction: > 70° (Contrast ratio ≥10)
  - 12:00 direction: > 60° (Contrast ratio ≥10)
- LCD Chromaticity (x, y):
- White: (0.342, 0.355)
  - Red: (0.632, 0.359)
  - Green: (0.276, 0.624)
  - Blue: (0.142, 0.091)
- Response Speed:
- Rise time: 6 msec- White to Black, 10% - 90% transition
  - Fall time: 2 msec- Black to White, 10% - 90% transition

## SYSTEM FUNCTIONALITY

- Colors: Up to 8 bit per color, ie 16.7 million colors.
- Functions: On Screen Display (OSD) menu.
- Function Controls: Sealed external On Screen Display (OSD) buttons.
- Image Scaling: Up/Down scaling to fit input to panel resolution.
- Image Control: Auto configuration, Brightness, Contrast, Clock, Phase, Color temperature, Image position, Saturation, Hue, Gamma.
- Other Features: Auto picture setup, Auto color gain, Auto power, OSD timeout position and transparency, Programmable hot keys.
- Plug & Play: DDC 1,2/b compatible

## POWER INPUT

- AC: 115/230 VAC 50-60Hz 120W, Universal

## OPTIONS &amp; ACCESSORIES

- Optional Controls : Infra-Red controls, Serial Port control.
- Optional touchscreen: Resistive touchscreen with RS232 interface
- Hard Case: Optional "Pelican" type transit hard case
- Rack Mount Kit: Optional EIA rack mount kit, including mounting hardware

## SAFETY &amp; CONFORMANCE

- UL 1950, EN60950, CSA 22.2 level 3, TUV, CE, FCC Part 15 Class B



## ENVIRONMENTAL

- Temperature** MIL-STD-810E (501.4, 502.4)
- Operating: -0 °C to 50 °C
  - 20 °C to 50 °C with pre-heater
  - Non-Operating: -25 °C to 70 °C
  - Cooling: Filtered forced air
- Humidity** MIL-STD-810E (507.2)
- Relative Humidity: 20 % to 90 % operating, non-condensing
  - 20 % to 90 % & non-operating & non-condensing
- Enclosure Class** Up to IP52
- Altitude** MIL-STD-810E (500.3)
- Operating: 15,000 ft (4571.8 m)
- Vibration** MIL-STD-810E (514.4)
- Operating: 10 to 500 Hz 1.04 g (RMS)
- Shock** MIL-STD-810E (516.4)
- Operating: 15 G, 8 ms ½ sine
  - Non-Operating: 40 G, 8 ms ½ sine
  - Drop (non-operating): 4 inches
  - 39" in shipping carton



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