



## Description

The MON1-T/7W-HR is a single 1/2 rack wide 7" diagonal screen format, high resolution LCD monitor designed to fit a standard Tektronix™ half tub. The monitor has a SDI and HD-SDI, auto sensing input with a buffered output of the input signal. Front panel controls feature adjustable brightness and contrast recessed trim pots.

Key benefits of the design are the strikingly crystal clear picture and wide viewing angle from the remarkably high resolution TFT LCD screen.

## Features

Front panel trim pot controls for brightness and contrast

1 HD-SDI or SD-SDI (auto-sensing) input with buffered HD-SDI/SD-SDI output

## Benefits

Fits in standard Tektronix™ half tub

Minimal power dissipation for a low operating temperature

This design offers completely accurate color reproduction from the all digital signal path that directly drives the LCD panel.

This unit is ideal for video monitoring of video feeds for mobile trucks, news and transmission control rooms, duplication and post production applications.

Half-rack 7" LCD color video monitor

16:9 aspect ratio

All digital signal path

Low power consumption

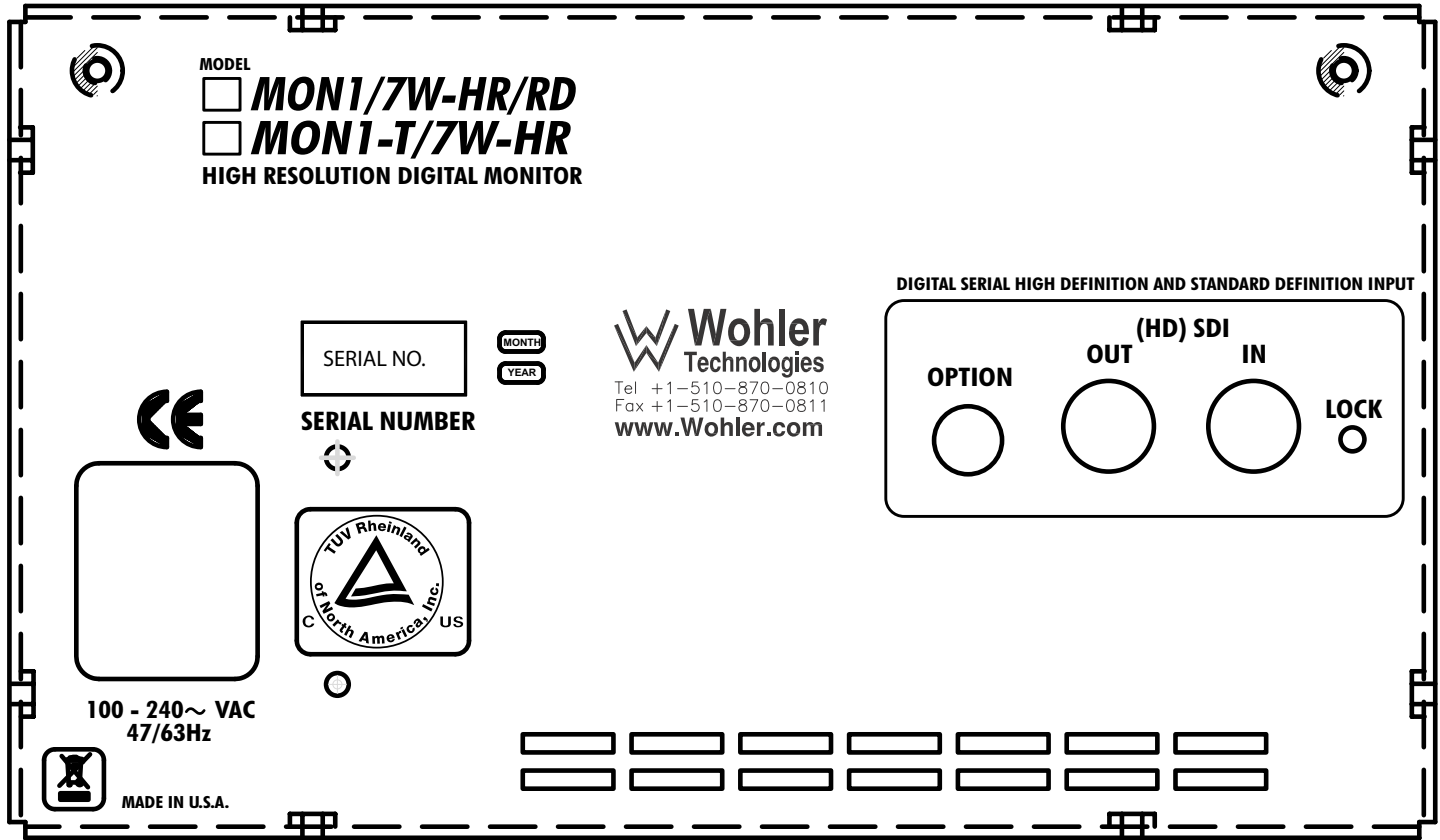
Wide viewing angle

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## Order Part Number

MON1-T/7W-HR: 8000-0020

Rear Panel



Physical Specifications

<b>Dimensions (H x W x D)</b>	5.125" x 8.375" x 16.75" (213 mm x 130 mm x 425mm)
<b>Shipping weight</b>	9 lbs (4.08 kg)
<b>Space requirements</b>	3RU, 1/2 rack wide with 19" rack mounting (EIA-310D) in Tektronix® Tub
<b>Supplied accessories</b>	AC external power unit/cord
<b>Power requirements</b>	Power to the unit is 100 to 240 VAC ± 10%, 50/60Hz.
<b>Power consumption</b>	Approximately 60 W

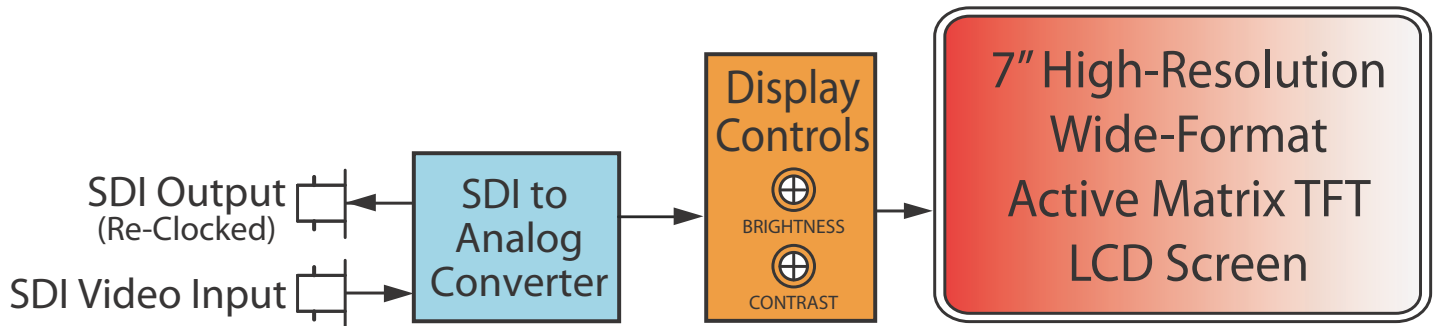
## Technical Specifications

<b>Inputs</b>	1 HD/SD-SDI (BNC)
<b>Outputs</b>	1 HD/SD-SDI (BNC)
<b>Additional rear panel controls</b>	Option: 10-position BCD switch displays color test fills
<b>Rear panel indicators</b>	Lock: green LED indicates that the SDI source signal is locked
<b>Display size (diagonal)</b>	7.0" (17.8 cm)
<b>Display type</b>	high-resolution TFT LCD, transmissive
<b>Video formats</b>	NTSC/PAL auto-sensing
<b>Signal input type</b>	75 Ω BNC (SMPTE 259M, SMPTE 292M auto-detect)
<b>Display image controls</b>	brightness and contrast
<b>Aspect ratio</b>	16:9 Wide
<b>Active area (H x V)</b>	155.00 x 87.12 (mm)
<b>Resolution (dots x lines)</b>	854 pixels X 3 (RGB Dots) X 480 Lines (1.2M "Megadots")
<b>Dot pitch (H x V)</b>	0.0605 x 0.1815 (mm)
<b>Pixel response Time</b>	7 ms rising (typ.); 18 ms falling (typ.)
<b>Color configuration</b>	RGB Stripe
<b>Color numbers</b>	262,000
<b>Viewing angle</b>	top=50°, bottom=60°, left=65°, right=65°
<b>Contrast ratio</b>	450 (typ.)
<b>Brightness</b>	400 (typ.) NITs (cd/m <sup>2</sup> )
<b>LCD lamp life</b>	15,000 hours (avg.). to specified reduction

## LCD Display Video Raster Format Parameters

Format	Scan Format Standards	Frame Rate	Lines	Active Lines	Samples	Active Samples
SDTV, 54	RP 174	60	525	507/487	3432	2880
SDTV, 36	SMPTE 267	60	525	507/487	2288	1920
SDTV, 27	SMPTE 125	60	525	507/487	1716	1440
SDTV, 54	ITU-R BT 601.5	50	625	577	3456	2880
SDTV, 36	ITU-R BT 601.5	50	625	577	2304	1920
SDTV, 27	ITU-R BT 601.5	50	625	577	1728	1440
HDTV, 74.25	SMPTE 260	30	1125	1035	2200	1920
HDTV, 74.25	SMPTE 274	30	1125	1080	2200	1920
HDTV, 74.25	SMPTE 274	30p	1125	1080	2200	1920
HDTV, 74.25	SMPTE 274	25	1125	1080	2640	1920
HDTV, 74.25	SMPTE 274	25p	1125	1080	2640	1920
HDTV, 74.25	SMPTE 295	25	1250	1080	2376	1920
HDTV, 74.25	SMPTE 274	25p	1125	1080	2750	1920
HDTV, 74.25	SMPTE 296 (1, 2)	60p	750	720	1850	1280

## Block Diagram



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