

Ikegami

HDTV/SDTV Multi-Format Color Monitor

HTM-2050R

HTM-1550R

HTM-1550CS

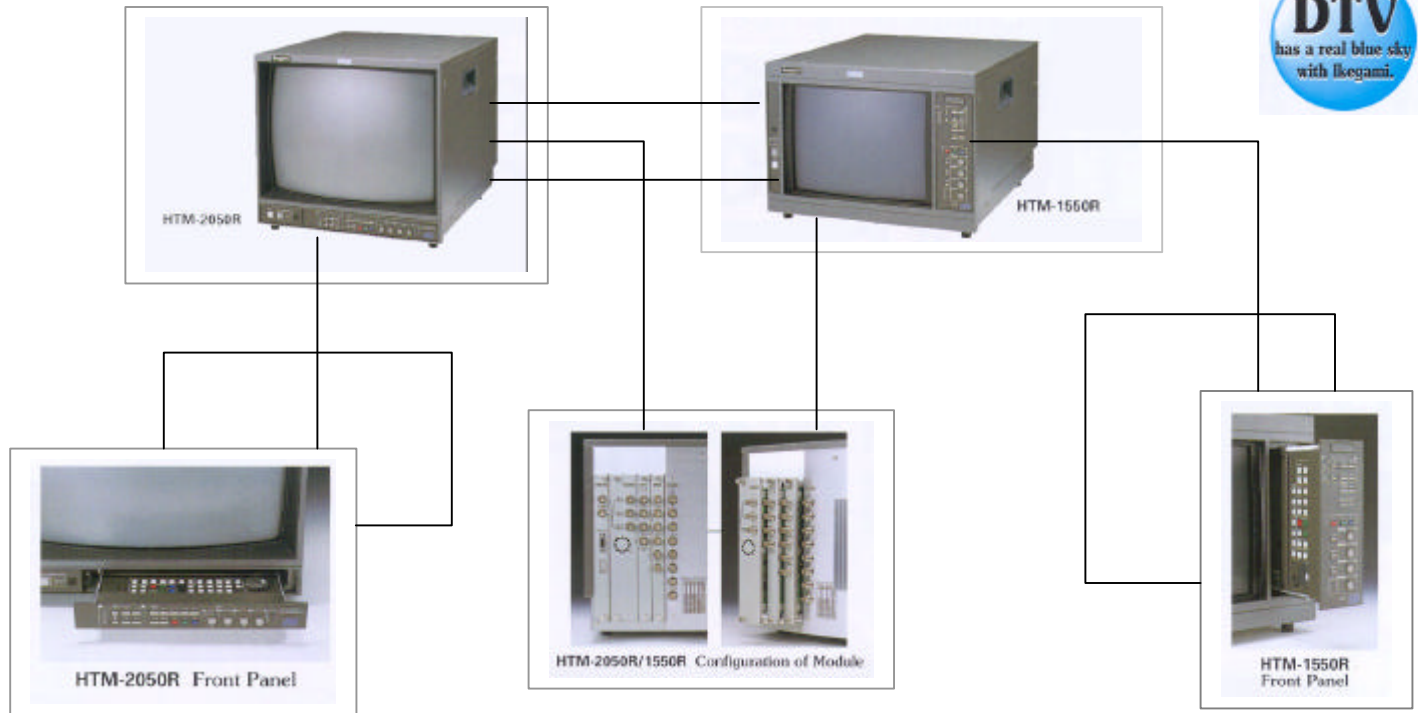
HTM-1050R



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HDTV/SDTV Multi-Format Color Monitor



HTM Multi-Format Color Monitor

Ikegami's high-end Color Monitor Series offers a choice of 20-inch, 15-inch and 10-inch monitors to meet not only every HDTV format, but also SDTV standards. Designed for diverse broadcasting formats and system requirements, the Color Monitors offer compatibility With HDTV/SDTV analog component signals (Y, Pb, Pr/RGB) as standard. Serial digital input compatibility is optionally available.

■Features

900TV lines(HTM-2050R), 750TV lines(HTM-1550R/CS), 500TV lines(HTM-1050R) : at HDTV.

1080i/720p-compatible(Type-1) and 1080i-compatible type (Type-2) available.

Compatibility with HDTV/SDTV analog component signals(Y, Pb, Pr/RGB) as standard.

Has a plug-in module system enabling system changes and extension simply by inserting the option module, without having to open the rear panel. Upto four, three and two modules can be plugged into the HTM-2050R/ HTM-1550R, HTM-1550CS and HTM-1050R, Respectively. (three, two and one modules, respectively For SDI input)

Ten-bit processing of a full range of digital data. Employs a rotary encoder system for changing data as Well as for changing display size, display position, side Pin correction and other elements.

A BFS circuit is used to stabilize white balancing.

Integrates the full spectrum of test signals including cross hatching, flat field(50%), window(100%), character and staircase with pluge. (HTM-2050R/1550R/1550CS)

A 4:3 marker can be displayed on a 16:9 display. A range of markers can also be displayed for 16:9 and 4:3 aspects at NTSC.

A built-in function to shadow any images other than 4:3 (contrast in shadowed component: 0% or 40%) at 16:9 display (HDTV) enables immediate visualization of a 4:3 image while observing a 16:9 monitor. (HTM-2050R/1550R/1550CS)

Three types of color temperatures can be memorized in addition to the standard color temperatures.

Incorporates three line Comb Filters for high-quality image reproduction with very little cross-color and cross-luminance at NTSC input.

Integrates a degauss timer function (can be set at 0 to 4.5 sec; 4 seconds is standard) Able to suppress rush power at system start-up.

Compared with HTM-1550R, HTM-1550CS reduces the surface ratio 20% by eliminating the control panel.

The HTM-1050R uses a dual power source system with both AC (100V/240V) and DC(DC12V compatible battery drive available) available. Also has AUDIO input capabilities.

<HDTV>

<SDTV>

	1080i		720p		480i/575i				480p
	Analog Component	HD SDI	Analog component	HD SDI	Analog component	Analog composite	Digital component	Digital composite	Analog component
Type1(HTM-2050R/1550R/1550CS)	STD	OPT	OPT	OPT	STD	OPT	OPT	OPT	OPT
Type2(HTM-2050R/1550R/1550CS)	STD	OPT	n/a	n/a	STD	OPT	OPT	OPT	OPT
HTM-1050R	STD	OPT	STD	OPT	STD	OPT	OPT	OPT	OPT

*STD : Standard *Option : Option *Analog component : Y Pb Pr or R G B *Digial composite : NTSC Only *480p : Order Opt

■ Specifications

■ GENERAL

Input Voltage

100V-120VAC+/-10%, 50/60Hz, Single Phase (100V area)
200V-240VAC+/-10%, 50/60Hz, Single Phase (200V area)
DC Input : +12VDC (HTM-1050R)

Power Consumption

HTM-1050R : 110W (DC : 95W)
HTM-1550R/CS: 150W
HTM-2050R : 200W

Ambient Temperature

0 – 40°C (32 – 104°F), 90% or less relative humidity(non-condensing)

Dimensions

HTM-1050R : 222(W) x 213(H) x 415(D) mm
8.74(W) x 8.39(H) x 16.34(D) inches
HTM-1550R : 450(W) x 310(H) x 515(D) mm
17.72(W) x 11.81(H) x 20.28(D) inches
HTM-1550CS : 350(W) x 300(H) x 515(D) mm
13.78(W) x 11.81(H) x 20.28(D) inches
HTM-2050R : 450(W) x 399(H) x 515(D) mm
17.72(W) x 15.71(H) x 20.28(D) inches

Weight

HTM-1050R : 14kg (30.86 lbs) approx.
HTM-1550R : 28kg (61.73 lbs) approx.
HTM-1550CS : 25kg (55.11 lbs) approx.
HTM-2050R : 38kg (83.77 lbs) approx.

■ RATING

Input Signal

HDTV:

RGB/Y,Pb,Pr signal
BNC 1 input (loop-through)
Corresponding format 1035i/59.94/60
1080i/59.94/60
720p/59.94/60 (Type 1 only)

*Input 1 channel can be added by using optional extension module.

SDTV:

RGB or Y,Pb,Pr signal
BNC 1 input (loop-through)
Corresponding format 525i/59.94
626i/50

*Same input terminal as HDTV

*Input 1 channel can be added by using optional extension module.

Input Level

HDTV:

RGB/Y,Pb,Pr (SMPTE274M/296M) input
Y,G,R,B input V: 700mVp-p positive, S: 300mVp-p
Pb Pr input V: 350mVp-p positive
Sync signal input 300mVp-p
HD SDI input(option) 800mVp-p 10% (Rated value)

SDTV:

Composite signal input VS: 1.0Vp-p positive
(option) V: 0.7Vp-p positive
Sync signal input 0.3 – 6Vp-p negative
RGB signal input VS: 1.0Vp-p positive, V: 0.7Vp-p positive

*In case sync signal on all R,G,B signals, sync signal on only G signal and no sync signal on all R,G,B signals.

Y, Pb, Pr signal input (SMPTE/N10)

Y White level 700mVp-p, Setup level 0mVp-p, Sync level 300mVp-p
PbPr 525mVp-p (100/0/7.5/75/7.5 Color Bar)

*Other signals except for standard signal can be changed by front panel.

SD SDI input(option): Rated value 800mVp-p

Input Impedance

HDTV:

RGB/Y,Pb,Pr input: High impedance bridge connection or
75 ohm termination
(75 ohm termination plug is an option)
HD SDI Input : 75 ohm termination only

SDTV:

Composite input, Sync input: RGB input, Y,Pb,Pr input:
High impedance bridge connection or 75 ohm termination
(75 ohm termination plug is an option)
SD SDI input: 75 ohm termination

■ PERFORMANCE

CRT

In-line gun, Dot-shadow mask, high resolution CRT

Dot Trio Pitch

HTM-1050R : 0.28mm
HTM-1550R/CS: 0.27mm
HTM-2050R : 0.28mm

Horizontal Resolution (at picture center)

HTM-1050R : 500TV lines or more (at HDTV)
HTM-1550R/CS: 750TV lines or more (at HDTV)
HTM-2050R : 900TV liens or more (at HDTV)

Maximum Brightness

HTM-1050R : 200cd/m2 or more
HTM-1550R/CS: 240cd/m2 or more
HTM-2050R : 170cs/m2 or more
*100% Window Signal, Brightness Preset, Contrast Max

■ VIDEO SIGNAL SYSTEM

Frequency Response

HDTV:

60Hz – 25MHz +1dB/-3dB
25MHz – 30MHz 3dB
Over 30MHz falling

SDTV:

60Hz – 10MHz +1dB/-3dB
Over 10MHz falling
Sag Within 5%

Black Level Stability Within 1%(APL10%-90%)

Noise

Coherent Noise : -45dB or more
Hum Noise : -50dB or more
Ramdom Noise : -50dB or more

■ DEFLECTION/SYNC SYSTEM

Scan

Normal scan (4:3/16:9), 16:9 only at HDTV
Underscan (4:3/16:9), 16:9 only at HDTV

Deflection Distortion

Within 1% of picture height

Sync Stability

Operation will be stable when the input signal falls within the
Following parameters:

Internal sync: +/-6dB in rated video input level values
External sync: External sync input level is 0.3 – 8Vp-p

Convergence

Within circle of 90% of picture height: within 0.4mm
Within circle of 90% of picture width: within 0.5mm

■ HIGH VOLTAGE

Tolerance: 20KV+/-1KV(HTM1050R),
25KV+/-1KV(HTM-1550R/CS), 26KV+/-1KV(HTM-2050R)
Voltage fluctuation: Within +/-3% for beam current of between
0 – 600uA (with 100uA as reference)

Design and specifications are subject to change w/o notice.

HTM-2050R HTM-1550R

HTM-1550CS HTM-1050R

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	Model	Description	Remarks
Option-1 HTM-1550R HTM-1550CS HTM-2050R	DKH-502A DKH-502B DK-801 DK-802N DK-8012 DE-801 DE-802 DCH-501	HD SDI digital 2 inputs module HD SDI digital 2 inputs module SD SDI D1 digital component 2 inputs mod SD SDI digital composite 2 inputs module SD SDI Digital component/composite NSTC 3 line comb decoder module PAL comb decoder module Dual component input module	Higher performance Standard 2 formats inputs
Option-2 HTM-1050R	DKH-1051 DKH-1052 DK-1051 DK-1052 DK-1050	HD SDI digital 1 input module HD SDI digital 2 inputs module SD SDI D1 digital component 2 inputs mod SD SDI digital composite(NTSC) input mod NTSC decoder module	
Option-3 All monitors	SRC-301/A RCT-20A EX-801 ASP-80 Rackmount Ears	Serial remote controller Infrared remote controller Test extender board Auto-setup probe Slides rail and rack metal	Each type of CRT size

