

## &lt;HDTV&gt;

## &lt;SDTV&gt;

	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 \*Digital 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 lines 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

Random 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.**