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.
Evolutionary New Features
An optional New Multi SDI Modules have been developed for the HTM-series Multi-Format monitors. These modules accepts HD-SDI or SD-SDI by selecting automatically. Also equipped with Embedded Audio Outputs (Analog or AES/EBU) and Audio Level Indicators (4ch or 8ch).

General Features
- Master Monitor : 900 TV lines (HTM-2050R)
  Broadcast Picture Monitor : 750TV lines
  (HTM-1505R/CS) and 500TV lines (HTM-1005R)
- Compatibility with HDTV/SDTV analog component signals (Y, P_, P_/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.
- 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 plugue. (HTM-2050R/1505R/1505CS)
- A 4:3 marker can be displayed on a 16:9 display.
- A built-in function to shadow any images other than 4:3 (contrast in shadowed component: 40%) at 16:9 display (HDTV) enables immediate visualization of a 4:3 image while observing a 16:9 monitor. (HTM-2050R/1505R/1505CS)
- Three types of color temperatures can be memorized in addition to the standard color temperatures.
- Incorporates three line ComFilters for high-quality image reproduction with very little cross-color and cross-luminance at NTSC input. (HTM-2050R/1505R/1505CS)
- Integrates a degauss timer function. (can be set at 0 to 4.5 seconds; 4 seconds is standard). Able to suppress rush power at system start-up.
- The HTM-1005R uses a dual power source system with both AC (100V) and (compatible battery drive optional available) available. Also has AUDIO input capabilities.
**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-1005R : option)
- **Ambient Temperature**
  - 0 ~ 40°C (32 ~ 104°F), 90% or less relative humidity (non-condensing)
- **Dimensions**
  - Type 2 (HTM-2050R) STD OPT OPT OPT STD OPT OPT OPT OPT
  - Type 1 (HTM-2050R) STD OPT OPT STD OPT STD OPT OPT OPT
  - HTM-1505R/1505CS/1005R
  - 415 (D) mm
  - 20.28 (D) inches

### PERFORMANCE
- **Deflection Distortion**
  - within 1% (APL 10% ~ 90%)
- **Sag**
  - within 5%
- **Black Level Stability**
  - within 1% (APL 10% ~ 90%)
- **Noise**
  - Hum Noise : - 46dB or more
  - Random Noise : - 50dB or more
  - Coherent Noise : - 40dB or more
  - Hum Noise : - 40dB or more
  - Random Noise : - 40dB or more

### VIDEO SIGNAL SYSTEM
- **Input Signal**
  - RGB/Y,Pb,Pr signal
  - BNC 1 input (loop-through)
  - Corresponding format:
    - 1035i/59.94/60
    - 1080i/59.94/60
    - 1080/24pSF
  - *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
    - 625i/50
  - *Same input terminal as HDTV
  - *Input 1 channel can be added by using optional extension module.
- **Input Level**
  - **HDTV**
    - RGB/Y,Pb,Pr signal (SMPTE274M/296M) input
    - Y,G,R,B input
    - V : 700mVp-p positive
    - S : 300mVp-p
    - P,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
    - V : 0.7Vp-p positive
    - RGB input
    - VS : 1.0Vp-p positive
    - V : 0.7Vp-p positive
  - *Input 1 channel can be added by using optional extension module.
- **Input Impedance**
  - **HDTV**
    - RGB/Y,Pb,Pr input
    - High impedance bridge connection or 75° termination
    - (75° termination plug is an option.)
  - **SDTV**
    - HD SDI input
    - 75° termination only

### DEFORMATION/SYNC SYSTEM
- **Scan**
  - **HDTV**
    - Normal scan (16:9) / Under scan (16:9)
    - HD 4:3 scan (The expansion of 4:3 area)
  - **SDTV**
    - Normal scan (4:3/16:9) / Under scan (4:3/16:9)
- **Deflection Distortion**
  - Within 1% of picture height
  - (Distortion linearity and raster distortion)
- **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 ~ 6Vp-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**
  - 19 kV ± 1kV (HTM-1005R)
  - 25 kV ± 1kV (HTM-1505R/CS)
  - 26 kV ± 1kV (HTM-2050R)
- **Voltage fluctuation**
  - Within ±0.5% for beam current of between 0 ~ 600uA (with 100uA as reference)
  - (HTM-2050R/1505R/CS)
  - 0 ~ 300uA (HTM-1005R)
# Ikegami HTM-2050R, HTM-1505R/CS, HTM-1005R

## HTM-2050R

**Model**
- DKM-501A
- DKM-501A-AV or AVD
- DKM-1051
- DKM-1051-AV or AVD
- DAM-508
- DAM-1058
- DAM-1054

**Description**
- Multi-SDI 2 inputs module (HD-SDI/SD-SDI)
- Multi-SDI 2 inputs and Embedded Audio Outputs module
- Multi-SDI 2 inputs module (HD-SDI/SD-SDI switchable)
- Multi-SDI 2 inputs module (HD-SDI/SD-SDI)
- Audio level indicator
- Audio level indicator
- Audio level indicator

**Remarks**
- Higher performance
- Analog or AES/EBU Audio
- Standard
- Analog or AES/EBU Audio
- 8ch Audio
- 4ch Audio

## HTM-1505R

**Model**
- DKM-501A
- DKM-501A-AV or AVD
- DKM-1051
- DKM-1051-AV or AVD
- DAM-508
- DAM-1058
- DAM-1054

**Description**
- Multi-SDI 2 inputs module (HD-SDI/SD-SDI)
- Multi-SDI 2 inputs and Embedded Audio Outputs module
- Multi-SDI 2 inputs module (HD-SDI/SD-SDI)
- Multi-SDI 2 inputs module (HD-SDI/SD-SDI)
- Audio level indicator
- Audio level indicator
- Audio level indicator

**Remarks**
- Standard
- Analog or AES/EBU Audio
- 8ch Audio
- 4ch Audio

## HTM-1005R

**Model**
- DKM-501A
- DKM-501A-AV or AVD
- DKM-1051
- DKM-1051-AV or AVD
- DAM-508
- DAM-1058
- DAM-1054

**Description**
- Multi-SDI 2 inputs module (HD-SDI/SD-SDI)
- Multi-SDI 2 inputs and Embedded Audio Outputs module
- Multi-SDI 2 inputs module (HD-SDI/SD-SDI)
- Multi-SDI 2 inputs module (HD-SDI/SD-SDI)
- Audio level indicator
- Audio level indicator
- Audio level indicator

**Remarks**
- Standard
- Analog or AES/EBU Audio
- 8ch Audio
- 4ch Audio

### General Option

**HTM-Series Monitors**
- DK-801
- DK-802N
- DE-801
- DE-802
- DECH-501
- EX-801A
- DE-1051
- DK-1051
- DK-1052N
- DE-1051
- EX-1051A
- SRC-301A
- Rack Mmount Adaptor
- ASP-80

**Description**
- SD SDI 4:2:2 digital component 2 inputs module
- SD SDI digital component 2 inputs module
- SD SDI digital component/composite 2 inputs module
- NTSC 3 line comb decoder module
- PAL comb decoder module
- Dual component input module
- Test extender board
- SD SDI 4:2:2 digital component 2 inputs module
- SD SDI NTSC 4fsc digital composite 2 inputs module
- NTSC decoder module
- Test extender board
- Serial remote controller
- Slide rail and rack metal
- Auto set-up probe

**Remarks**
- 20"x15" HTM-series
- 20"x15" HTM-series
- 20"x15" HTM-series
- 20"x15" HTM-series
- 20"x15" HTM-series
- 20"x15" HTM-series
- 20"x15" HTM-series
- 10" HTM-series
- 10" HTM-series
- 10" HTM-series
- All HTM series
- Each type for monitor size
- All HTM series

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**Design and specifications are subject to change without notice.**

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**Ikegami**

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