

# Image Quality, Reliability, Performance

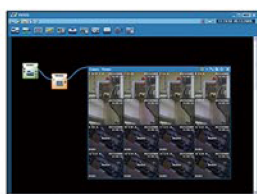
## H.264 Full D1 Real-Time Recording / Playback



## DT(D1@480) Series MT(CIF@480) Series

### DT Major Features

- Based on Private Development ASIC Technology and Linux OS.
- Pentaplex Operation performance (Live, Recording, Playback, Network, Backup)
- 480 FPS Real-Time Recording (DT)
- Up to 16CH simultaneous playback.
- Different Recording Frame, Resolution, Quality and Audio setting for each channel.
- Various Playback (Panorama, Event, Smart and Section Repeat playback)
- Schedule specific time of E-Mail notification.
- Flexible Network support (Static, DHCP, DDNS)
- Viewer software for SMART PHONE.
- Digital zoom in Playback.
- Live view in Playback (CAMEO)
- Support E-SATA & SATA II.
- Gigabit Network.
- Support HDMI
- Support RAID0, RAID1, RAID5.
- Support Dual Streaming.
- Support POS.



ROSS



Live Viewer



SMS eMap



Graphic UI



Web Viewer



Smart Phone



## DT Series

- Full HD Display
- 16 Channel D1 Real-Time Recording

### HDD Bay



| Model                            |                             | DT-1600                                                                                                    | DT-800        | MT-1600                | MT-800        | MT-400        |
|----------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------|---------------|------------------------|---------------|---------------|
| Performance                      |                             | PENTAPLEX                                                                                                  |               |                        |               |               |
| Display Speed (NTSC / PAL)       |                             | 480 / 400 fps                                                                                              | 240 / 200 fps | 480 / 400 fps          | 240 / 200 fps | 120 / 100 fps |
| Recording Speed (NTSC / PAL)     | D1 (704*480)/(704*576)      | 480 / 400 fps                                                                                              | 240 / 200 fps | 120 / 100 fps          | 120 / 100 fps | 120 / 100 fps |
|                                  | 2CIF (704*240)/(704*288)    | 480 / 400 fps                                                                                              | 240 / 200 fps | 240 / 200 fps          | 240 / 200 fps | 120 / 100 fps |
|                                  | CIF (352*240)/(352*288)     | 480 / 400 fps                                                                                              | 240 / 200 fps | 480 / 400 fps          | 240 / 200 fps | 120 / 100 fps |
| Video In                         | Analog Camera               | 16 CH (BNC)                                                                                                | 8 CH (BNC)    | 16 CH (BNC)            | 8 CH (BNC)    | 4 CH (BNC)    |
| Video Out                        | Main Display                | HDMI, VGA, Composite                                                                                       |               |                        |               |               |
|                                  | Main Display Resolution     | 1920x1080 (P), 1920x1080 (I), 1440x900, 1280x1024                                                          |               |                        |               |               |
|                                  | Loop-Out/ Spot              | 16 / 3                                                                                                     | 8 / 1         | 16 / 2                 | 8 / 1         | 4 / 1         |
| Audio                            | Input / output              | 16 / 1                                                                                                     | 8 / 1         | 16 / 1                 | 8 / 1         | 4 / 1         |
| Alarm                            | Input / output              | 16 / 4                                                                                                     | 8 / 1         | 16 / 2                 | 4 / 1         | 4 / 1         |
| Details                          |                             |                                                                                                            |               |                        |               |               |
| Screen                           | Display Split               | 1, 4, 7, 9, 10, 13, 16                                                                                     | 1, 4, 7, 9    | 1, 4, 7, 9, 10, 13, 16 | 1, 4, 7, 9    | 1, 4          |
|                                  | Interface                   | Graphic User Interface                                                                                     |               |                        |               |               |
| Video                            | Format                      | NTSC / PAL Auto detection                                                                                  |               |                        |               |               |
|                                  | Codec                       | H.264 Advanced                                                                                             |               |                        |               |               |
|                                  | Recording type              | Schedule / Continuous / Event (Motion, Alarm)                                                              |               |                        |               |               |
| Storage                          | Interface type              | SATA II                                                                                                    |               |                        |               |               |
|                                  | HDD                         | Internal up to 4 HDD's<br>External 1 HDD's(E-SATA II),<br>Supported External Bay(Optional)                 |               |                        | -             |               |
| Connectors                       | USB port                    | USB port * 2                                                                                               |               |                        |               |               |
| Function                         |                             |                                                                                                            |               |                        |               |               |
| Live Display                     | OSD                         | On / Off                                                                                                   |               |                        |               |               |
|                                  | Border Color / Digital Zoom | Selectable / Up to 4X                                                                                      |               |                        |               |               |
|                                  | CAMEO                       | Camera Adjustment / Camera position change / Freeze / Audio on                                             |               |                        |               |               |
| Motion                           | Area                        | Adjustable GRID (22 X 15)                                                                                  |               |                        |               |               |
|                                  | Sensitivity                 | 5 Level motion detection                                                                                   |               |                        |               |               |
| System                           | Hidden Video                | Video is hidden in Live view but it is recorded                                                            |               |                        |               |               |
|                                  | PTZ                         | Supported recent PTZ camera protocol / Preset up to 255 / RS 485 / RS 232                                  |               |                        |               |               |
|                                  | Private Zone                | Block the private zone in live camera view                                                                 |               |                        |               |               |
|                                  | Auto Time Synch             | By NTP(Network Time Protocol)                                                                              |               |                        |               |               |
|                                  | Firmware Update             | Via USB & Network                                                                                          |               |                        |               |               |
| Event                            | SMART Alarm                 | Auto Detect & Monitoring HDD's problem                                                                     |               |                        |               |               |
|                                  | Source                      | Motion / Alarm In / Video loss                                                                             |               |                        |               |               |
|                                  | Action                      | Recording, e-Mail notification, Log file, Send message to Remote, Buzzer, Pop Up Window, Alarm, PTZ preset |               |                        |               |               |
| Record                           | Pre/Post Alarm              | Yes (Up to 60 sec / Up to 100 sec)                                                                         |               |                        |               |               |
|                                  | Resolution                  | By each camera for different resolution setting (CIF/2CIF/D1)                                              |               |                        |               |               |
| Search                           | Quality                     | 4 Levels ( Low / Normal / High / Highest )                                                                 |               |                        |               |               |
|                                  | Speed                       | x1, x2, x4, x8, x16                                                                                        |               |                        |               |               |
|                                  | Quick / Event search        | Search by time with calendar / Search by event                                                             |               |                        |               |               |
|                                  | Section Repeat search       | Select specific time period and playback repeatedly                                                        |               |                        |               |               |
|                                  | Panorama search             | Frame by frame                                                                                             |               |                        |               |               |
|                                  | Smart search                | Search only event and playback without interval                                                            |               |                        |               |               |
| Back Up                          | CAMEO                       | Live monitoring during playback, Playback camera change, Freeze and Digital zoom                           |               |                        |               |               |
|                                  | File format                 | DVR Format                                                                                                 |               |                        |               |               |
|                                  | Media                       | DVD / USB device                                                                                           |               |                        |               |               |
| Network                          | Protocol                    | Static IP, DHCP, DDNS                                                                                      |               |                        |               |               |
|                                  | Physical / Mac Layer        | RJ45 (10/100/1000 Mbps), Ethernet                                                                          |               |                        |               |               |
|                                  | Browser                     | SMS, Web Viewer, Smart Phone Viewer (Android, I-phone)                                                     |               |                        |               |               |
| Environment                      |                             |                                                                                                            |               |                        |               |               |
| Operating Temperature / Humidity |                             | 0~40°C / 20~80% RH                                                                                         |               |                        |               |               |
| Dimension / Weight               |                             | 350(W) X 400(D) X 88(H) / 6Kg (without HDD)                                                                |               |                        |               |               |
| Power Requirement / Consumption  |                             | AC 100V - 220V (50Hz-60Hz) / 120W                                                                          |               |                        |               |               |