

# Digital Video Recorder

NDR-HA2104



- Recording speed: up to 100 fps
- External devices support ("Text-in" feature): ATM, POS, AC, etc.
- Effective copying in the "mini-bank" format
- Graphical object visualisation (maps)
- Multi-lingual user friendly OSD

MPEG-4 compression  
D1 recording resolution  
System self-diagnostic  
Pre-alarm function (up to 1/2 h)

**NDR-HA2104 digital video recorder features the most advanced technical parameters among recorders available on the market. High stability and trouble-free continuous operation are the biggest advantages of H Series DVRs, which is the continuation of 5000 Series. These features, in connection with expanded self-diagnostic functions of recorders' processes and automatic notification, enable installation of the devices in objects of the highest safety requirements.**

All H Series and 5000 Series DVRs are based on similar hardware and software solutions, which enable operation via RASplus application.

NDR-HA2104 recorder works in full quadruplex mode that allows simultaneous recording, live monitoring or playback, backup of the recorded data and networking.

## Specifications

Model	NDR-HA2104
Operation Mode	QUADRUPLEX
Video Input	4 x BNC, loop-through
Video Output	Main Monitor (1 x BNC, 1 x VGA)
Alarm Input/Output	4/1 relay output
Audio Input/Output	4 x RCA/1 x RCA
Recording Speed	Up to 100 fps (360 x 288), up to 50 fps (720 x 288), up to 25 fps (720 x 576)
Compression	MPEG-4
Recording Resolution	720 x 576, 720 x 288, 360 x 288
Recording Mode	Time-lapse, Event (Alarm, Motion detection and/or "Text-in")
Motion Detection	192 detection windows (16x12 grid) with sensitivity & active areas cells number needed for alarm activation defined individually for each channel
Schedule Recording	Individually adjustable for each day/specific days (holidays, etc.) per camera, combination of individual recording modes possibility
Time Synchronisation	Automatic time synchronisation with NTP server
System Diagnostic	Automatic control of HDD bad sectors number ("Health") & temperature status with local and network notification function
Storage	Supports 1 SATA HDD, 250 GB HDD in-set included
Backup	Onto CD, HDD or USB Flash Memory through USB port, trough the network
External Ports	1 x Ethernet, 1 x USB 2.0, 1 x RS-485, 1 x RS-232
PTZ Control	Directly from the device or through the network (RASplus, RASmobile, IE)
Protocol	Novus-C1, Pelco-D and others
Control	Front panel, IR remote controller (in-set included), Network (RASplus, RASmobile, IE), NV-KBD70 & NV-KBD30 keyboards, USB PC mouse
Set-up	Multi-lingual On Screen Display (OSD)
Software	RASplus, RASmobile
User Authorisation	Creation of user groups and accounts with diverse grants, password protection
Power Supply	100 ~ 240 VAC