

# FLEX-16E

## 16 Channel H.264E 960H 2U Standalone DVR

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The flagship DVR of IC Realtime – the Flex series digital video recorder. The Flex series has seen several hardware upgrades over its tenure in the IC Realtime lineup. The Flex series is a battle hardened, full sized (19" wide, 2U high) DVR capable of housing 8 HDDs internally. The Flex series recorders are typically installed in a standard 19" equipment rack, or are installed on a desktop.

The latest generation of the Flex series recorders are hybrid units capable of recording analog and IP systems. Due to its stronger hardware and larger internal HDD capacity, the Flex DVR is well suited for installation in the most demanding applications. Typical Flex DVR deployments include: light to heavy commercial sites, large offices, financial institutions, educational institutions, and gambling establishments (Casinos, etc.). These DVRs also integrate with the full suite of supported IC Realtime A/V control system drivers.

Like all IC Realtime series recorders, this device utilizes H.264E (Enhanced H.264) compression technology, enabling crisp image viewing with the least bandwidth consumption possible. This unit adopts an embedded system design, as well as a Linux Operating System, resulting in high levels of stability, performance, and most importantly: reliability. In addition, this unit is fully operational from remote locations (Search/Playback/Backup/Configuration) over standard Ethernet networks.

### Features

- Up to 8/16/32 channel with 1080p realtime live view
- H.264/MJPEG decoding & H.264 dual-stream encoding
- IP: Max 160Mbps bit rate incoming
- HDMI / VGA / TV/ Spot simultaneous video output
- All channel synchronous realtime playback, GRID interface & smart search
- ONVIF Version 2.0
- Auto IP address acquisition by IP Search function
- Support 8 SATA HDDs up to 32TB, 1 eSATA up to 16TB, 4 USB2.0
- Multiple network monitoring: Web browser, SmartICRSS, ICRSS Pro

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## Specifications

<b>Model</b>	FLEX-16E
<b>System</b>	
Main Processor	Dual-core embedded processor
Operating System	Embedded LINUX
<b>Video</b>	
IP Video Input	16 channel
Analog Video Input	16 channel, BNC
Analog Video Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)
Loop Output	16 channel, BNC
<b>Audio</b>	
Input	16 channel, BNC
Output	1 channel, BNC
Two-way Talk	1 channel Input, 1 channel Output(reuse the audio output channel), BNC
<b>Display</b>	
Interface	2 HDMI, 1 VGA, 1 TV, 1 Spot, BNC
Resolution	1920x1080, 1280x1024, 1280x720, 1024x768
Display Split	1/4/8/9/16/25/36
Privacy Masking	4 rectangular zones (each camera)
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording
<b>Recording</b>	
Video/Audio Compression	H.264 / MJPEG(IP) / G.711
Image Resolution	1080P(1920x1080) / 720P(1280x720) / 960H(960x576/960x480) / D1/4CIF(704x576/704x480) / HD1(352x576/352x480) / 2CIF(704x288/704x240) / CIF(352x288/352x240) / QCIF(176x144/176x120)
Record Rate	IP: Max 160Mbps inbound bit rate    Analog: All channels@960H (30fps)
Bit Rate	IP: 48~8192Kb/s    Analog: 48~3072Kb/s
Record Mode	Manual, Schedule(Regular(Continuous), MD, Alarm), Stop
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec
<b>Video Detection &amp; Alarm</b>	
Trigger Events	Recording, PTZ, Tour, Alarm, Video Push, Email, FTP, Spot, Buzzer & Screen tips
Video Detection	Motion Detection, MD Zones: 396(22x18), Video Loss & Camera Blank
Alarm Input	16 channel
Relay Output	6 channel
<b>Playback &amp; Backup</b>	
Sync Playback	1/4/9/16
Search Mode	Time/Date, Alarm, MD & Exact search (accurate to second), Smart search
Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom
Backup Mode	USB Device / Network / eSATA Device



<b>Network</b>	
Ethernet	2 RJ-45 ports (10/100M/1000M)
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, Alarm Server, IP Search
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android, Windows Phone
<b>Storage</b>	
Internal HDD	8 SATA ports
External HDD	1 eSATA port
<b>Auxiliary Interface</b>	
USB	4 ports (2 Rear), USB2.0
RS232	1 port, For PC communication & Keyboard
RS485	1 port, For PTZ control
<b>General</b>	
Power Supply	AC100~220V, 50/60Hz
Power Consumption	40W
Working Environment	14 ~ 131° F (-10 ~ 55°C) / 10~90%RH / 86~106kpa
Dimensions (WxDxH)	2U, 17.32" x18.11" x3.50" (440mmx460mmx89mm)
Weight	14.33lb without HDD (6.5KG)

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IC Realtime LLC  
3050 N Andrews Avenue Extension  
Pompano Beach, FL 33064  
(866) 997-9009  
[www.icrealtime.com](http://www.icrealtime.com)

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