

## EXTRAHOP DISCOVER APPLIANCES

### ANALYTICS AT THE SPEED OF THE DIGITAL ENTERPRISE

The ExtraHop Discover appliance performs stream processing on network traffic, enabling IT and Security teams to gain real-time insight at scale. The stream processor reconstructs every conversation taking place on the network, and then extracts valuable metadata about those conversations.

## KEY BENEFITS

### UNMATCHED SCALABILITY

A single ExtraHop Discover appliance can analyze behavior for up to 100,000 endpoints and up to a sustained 100 Gbps, providing the equivalent of more than 1 PB of data analysis each day—while still guaranteeing at least 30 days of lookback that you can extend with your own network storage. This performance is why ExtraHop leads the IT analytics industry in terms of cost-effectiveness and visibility.

### VALUABLE DETAILS

The ExtraHop real-time stream processor extracts thousands of L2-L7 metrics about conversations in the environment, including details such as SQL statements, error messages, and file names. The platform also correlates everything across tiers, so that you can see how a slow Citrix login is related to contention at the storage tier, for example.

### VISIBILITY INTO ENCRYPTED TRAFFIC

An increasing amount of data center traffic is encrypted, and for good reason. ExtraHop offers line-rate bulk decryption for SSL/TLS traffic, up to a sustained 100 Gbps, so that organizations can implement encryption while maintaining visibility. ExtraHop also decrypts traffic protected by forward-secrecy ciphers, such as those mandated by TLS 1.3.

### IMMEDIATE VALUE FOR ALL TEAMS

Once you connect an ExtraHop Discover appliance to a port mirror or network tap, it will automatically begin discovering and classifying devices and applications in your environment. Within minutes, you will be able to see application dependencies, user experience, device behavior, and more.

# PHYSICAL

SPECIFICATIONS	EDA 10200	EDA 9200
<b>TRAFFIC ANALYTICS</b>		
Throughput	100 Gbps	50 Gbps
Packets per second (typical)	10 million	5 million
HTTP TPS	3 million	1.4 million
Total Endpoints	100,000	50,000
<b>HARDWARE SSL DECRYPTION (OPTIONAL)</b>		
Throughput	100 Gbps	50 Gbps
<b>NETWORK</b> <span style="float: right;">ExtraHop appliances can receive data via RPCAP, ERSPAN, or physical ports .</span>		
Management ports	2 x 1 GbE copper + 2 x 10 GbE fiber	2 x 1 GbE copper + 2 x 10 GbE fiber
High Speed Monitoring Connectivity Options	2 x 100 GbE/40 GbE MPO fiber (base) 4 x 100 GbE/40 GbE MPO fiber (option) 4 x 25 GbE/10 GbE LC fiber (option) 4 x customer-supplied DAC	4 x 25 GbE/10 GbE LC fiber 4 x customer-supplied SFP28 DAC
<b>CHASSIS</b>		
Datastore	18 TB (RAID 10)	7.2 TB (RAID 10)
Packet capture (optional)	480 GB	480 GB
Power supply	2 x 1100 W	2 x 750 W
Height	8.68 cm (3.42 in.)	8.68 cm (3.42 in.)
Width	43.4 cm (17.09 in.)	43.4 cm (17.09 in.)
Depth	71.6 cm (28.17 in)	71.6 cm (28.17 in)
Weight	26.3 kg (57.98 lb)	26.3 kg (57.98 lb)
<b>ENVIRONMENT DETAILS</b>		
Heat dissipation	4100 BTU/hr maximum	2891 BTU/hr maximum
Operating temperature	10°C to 35°C (50°F to 95°F) with no direct sunlight on the equipment	
Storage temperature	-40°C to 65°C (-40°F to 149°F)	
Operating relative humidity	10% to 80% RH with 29 °C (84.2° F) max. dew point	
Operating vibration	0.26 Grms at 5 Hz to 350 Hz (all three axes)	
Operating altitude	3,048 m (10,000 ft)	-15.2m to 3,048 m (-50 ft to 10,000 ft)
Operating shock	Six consecutively executed shock pulses in the positive and negative x, y, and z axes of 6 G for up to 11 ms	
Operating system	The operating system is a security-hardened embedded Linux with a networking microkernel developed specifically for high-speed packet processing via the ExtraHop real-time stream processor	
Remote management	iDRAC8 remote management controller	

# PHYSICAL

SPECIFICATIONS	EDA 8200	EDA 6200	EDA 1100
<b>TRAFFIC ANALYTICS</b>			
Throughput	25 Gbps	10 Gbps	1 Gbps
Packets per second (typical)	2.5 million	1 million	up to 242,000
HTTP TPS	795,000	440,000	up to 118,000
Total Endpoints	35,000	18,000	750
<b>HARDWARE SSL DECRYPTION (OPTIONAL)</b>			
Throughput	25 Gbps	10 Gbps	1 Gbps
<b>NETWORK</b> <span style="float: right;">ExtraHop appliances can receive data via RPCAP, ERSPAN, or physical ports .</span>			
Management ports	4 x 1 GbE copper	4 x 1 GbE copper	1000BASE-T
High Speed Monitoring Connectivity Options	2 x 25GbE/10GbE LC fiber 2 x customer-supplied SFP28 DAC	2 x 10GbE LC fiber 2 x customer-supplied SFP+ DAC	NA
<b>CHASSIS</b>			
Datastore	7.2 TB (RAID 10)	1.2 TB (RAID 10 optional)	88 GB
Packet capture (optional)	480 GB	480 GB	140 GB
Power supply	2 x 750W	2 x 750W	Max 55W consumption DC adapter
Height	4.28 cm (1.68 in.)	4.28 cm (1.68 in.)	5.7 cm (2.24 in.)
Width	43.4 cm (17.08 in.)	43.4 cm (17.08 in.)	19.6 cm (7.71 in.)
Depth	73.4 cm (29.61 in.)	73.4 cm (29.61 in.)	27.0 cm (10.6 in.)
Weight	21.9 kg (48.28 lbs)	21.9 kg (48.28 lbs)	3.2 kg (7.0 lbs)
<b>ENVIRONMENT DETAILS</b>			
Heat dissipation	2891 BTU/hr maximum	2891 BTU/hr maximum	
Operating temperature	10°C to 35°C (50°F to 95°F) with no direct sunlight on the equipment		0 °C to 40 °C
Storage temperature	-40 °C to 65 °C (-40 °F to 149 °F)		-20 °C to +70 °C (4 °F to 158 °F)
Operating relative humidity	10% to 80% RH with 29°C (84.2°F) max. dew point		
Operating vibration	0.26 G rms at 5 Hz to 350 Hz (all operation orientations)		
Operating altitude	3,048 m (10,000 ft)	3,048 m (10,000 ft)	
Operating shock	Six consecutively executed shock pulses in the positive and negative x, y, and z axes of 6 G for up to 11 ms		
Operating system	The operating system is a security-hardened embedded Linux with a networking microkernel developed specifically for high-speed packet processing via the ExtraHop real-time stream processor		
Remote management	iDRAC8 remote management controller		N/A

## VIRTUAL

SPECIFICATIONS	EDA 6100V	EDA 2000V	EDA 1000V
<b>TRAFFIC ANALYTICS</b>			
Throughput	up to 10 Gbps*	3 x 1 Gbps	up to 1 Gbps
Packets per second (typical)	up to 1 million	up to 411,000	up to 180,000
HTTP TPS	up to 530,000	up to 178,000	up to 76,000
<b>SOFTWARE SSL DECRYPTION (OPTIONAL)</b>			
Handshakes per second (2048-bit RSA)	up to 4,130	up to 1,750	up to 450
Throughput	up to 3.3 Gbps	up to 1 Gbps	up to 500 Mbps
<b>NETWORK REQUIREMENTS</b>			
Monitoring options	ExtraHop appliances can receive data via RPCAP, ERSPAN, and port mirroring. RPCAP and ERSPAN have a maximum throughput of 1 Gbps per management virtual interface.		
Management virtual interface	1 or more	1 or more	1 or more
Capture virtual interfaces	3	3	1
Firewall requirements	TCP port 443 inbound to appliance for administration purposes UDP port 53 outbound to Internet for registration purposes, unless managed by an ExtraHop Command Appliance (ECA)		
<b>RESOURCE REQUIREMENTS</b>			
ExtraHop requires thick provisioning on all virtual appliances. CPUs require hyperthreading, VT-x technology, 64-bit architecture, and a minimum of 2.5 GHz clock speed.			
vCPUs	16	6	2 (or 3 with SSL decryption)
Memory	64 GB	6 GB	4 GB
Disk	1 TB	255 GB	46 GB
Packet capture (optional)	1 GB - 500 GB	1 GB - 500 GB	1 GB - 500 GB
<b>VIRTUAL ENVIRONMENTS</b>			
ESX	v5.1 or later	v4.0 or later	v4.0 or later
Hyper-V	Not supported	Windows Server 2012 R2	Windows Server 2012 R2
KVM	Not supported	64-bit Linux kernel, 3.6.11-4 and later	64-bit Linux kernel, 3.6.11-4 and later
Operating system	The operating system is a security-hardened embedded Linux with a networking microkernel developed specifically for high-speed packet processing via the ExtraHop real-time stream processor.		

\*ExtraHop was the sole tenant on the server during performance testing. The server under test used two Intel Xeon processors E5-2695 v2, 96GB DDR3 RAM, and 1 TB of storage, and was running VMware ESX v5.1. Data was sent from physical port mirrors to two dedicated 10GbE physical interfaces. Performance may vary by server and network configuration.

### ABOUT EXTRAHOP NETWORKS

ExtraHop is the first place IT turns for insights that transform and secure the digital enterprise. By applying real-time analytics and machine learning to all digital interactions on the network, ExtraHop delivers instant and accurate insights that help IT improve security, performance, and the digital experience. Just ask the hundreds of global ExtraHop customers, including Sony, Lockheed Martin, Microsoft, Adobe, and Google. To experience the power of ExtraHop, explore our interactive online demo. Connect with us on Twitter, LinkedIn, and Facebook.



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