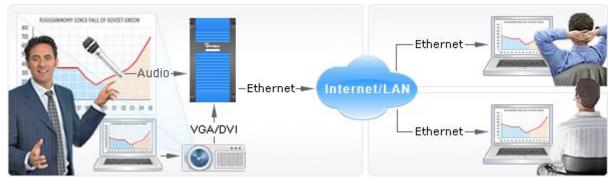


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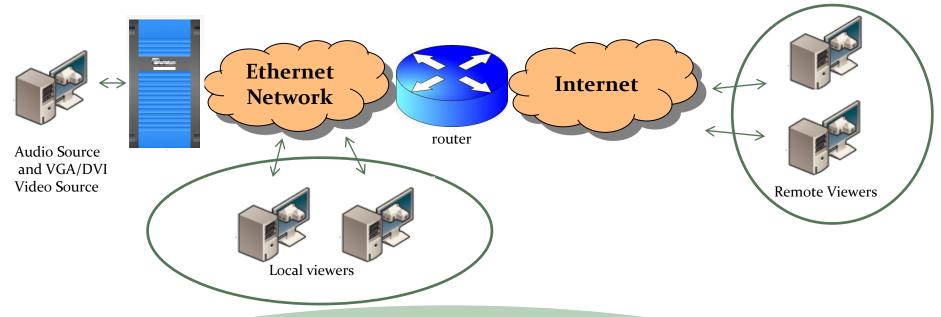
## Epiphan VGA Broadcaster Lite™



# Product Capabilities January 2011



### **Broadcaster Lite Typical Applications**



- On the fly streaming of Audio + Video (VGA/DVI/HDMI\*) up to 30 FPS
- Presenter uses Video cable connection only OS/CPU agnostic
- Presenter access to local network not required
- Real time slides or multi media not sent or stored at 3<sup>rd</sup> party before during/presentation

\* Non encrypted hdmi, analog audio required



# **Broadcaster Lite Key Capabilities**

### Real-time Video Broadcast of VGA/DVI/HDMI Video + Audio

- On the fly Capture, Transcode, Compress to standard video formats
- Transmit live video stream to remote clients
- Frame rate up to 30 FPS (HD at 24 FPS)

### High performance Hardware Solution

- OS agnostic, No software to deploy on presenter system
- Security and Performance
- Built in Active Video Splitter/Converter
- Portable
- Typical Applications
  - Corporate Conference Rooms / Meeting Rooms
  - Webinars/Web-broadcasting, Online Training
  - Presentation Sharing / "Document Camera" for Audio/Video conferences
  - Customer Support, Video Call Center
  - Hearing, visual impairments aid, simultaneous translation





### **Key Features**

#### Multiple Analog / Video Sources

- DVI-I (analog+ Digital) or VGA (analog) video input sources
- Supports resolutions up to 1920x1080

#### On the Fly Real-time Audio/Video Internet Broadcast

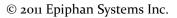
- Stream compression on-the-fly
- H.264/Adobe Flash
- RTSP streaming protocol support
- Encoding MPEG4 or H.264 at up to 30 frames per second (E.g HD video at 24 FPS)
- Synchronization of video with 3.5mm stereo audio input

#### Ease of Use - Plug and Play –

- Portable Stand-alone internet appliance
- Video/Audio source are the presenter's only connections
  - no operating system dependency, no network setup for presenter
- Video/Audio Source does not have to be a computer (e.g. document camera, ultrasound)
- Active Splitter for VGA/DVI conversion, other projectors, simultaneous translation, etc.

#### Security and Performance

- Does not interfere with presenter's computer CPU/Application
- No client side software required
- Presenter does not require network access, no security risk
- No 3rd party hosting required







# **Key Changes Since Last Version**

### Video Sources

- DVI connector (digital and analog) or VGA (analog)
- Supports higher resolutions, digital video sources
- Embedded active splitter/converter
  - e.g. VGA in, DVI out and vice versa, useful with older projectors
  - Multi language channel broadcast

### Performance

- Supports up to 30 frames per second (vs. previous 1-3 fps)
- Capture rate no longer dependent on the amount of change frame-toframe in source signal.
- Real time compression improvements with reduced delay
- Now compatible with HD Video standard over HDMI up to 1080p24 and 1080p30, or other custom DVI/VGA video (x.y) resolutions
- Significant reduction in power consumption, temperature





### **Features and Benefits**

| Key Feature   | Benefits  |
|---|---|
| DVI input   | Capture analog(VGA/DVI) or DVI(digital) video sources including HDMI (non-protected) source                                       |
| Real-time, on the fly capture, compress, transmit<br>Supports resolutions up to 1920x1080 | Broadcast lossless 1080p HD video over LAN or Internet<br>in real time  |
| H.264/Adobe Flash stream compression on-the-fly   | Supports many different browsers  |
| RTSP streaming protocol support   | Seamless integration with CDNs (Content Delivery Network)   |
| Encoding MPEG <sub>4</sub> or H.26 <sub>4</sub> at up to 30 frames per second             | High quality image with fluid motion, high resolution   |
| Synchronization of video with 3.5mm stereo audio input                                    | Deal with network latency inherent with internet  |
| Stand-alone internet appliance  | Ease of use<br>Secure hardware solution,<br>no modification of source equipment needed<br>No networking or OS dependency          |
| Active VGA/DVI splitter   | Daisy chain or test video source to projector<br>Convert new/old connectors with older projects<br>Create multi language channels |

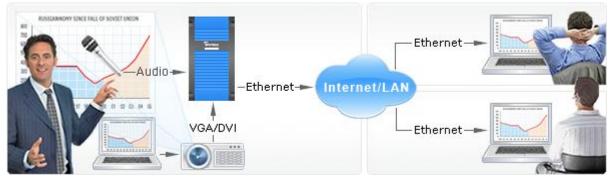


### **Typical Applications**

| End-User                               | Sample Applications   |
|--|---|
| A/V Conference Host                    | Broadcast to remote audiences<br>Simultaneous translation channel(s)                                    |
| Corporate User and Conference<br>Rooms | Remote presentation sharing<br>Broadcast Document Camera  |
| Sales and Marketing                    | Webinars, Webcasting<br>Training, Live Demonstrations   |
| Customer Support                       | Video call center<br>Screen sharing<br>Training<br>Live Demonstrations                                  |
| Visual/Audio impaired                  | Stream to laptop or other aid for storage, magnification, amplification                                 |
| Skype, SIP Audio conference            | Share presentations, video , screens at high FPS  |
| Non Typical Video Sources              | Ultrasound, document camera, air traffic panel, factory sensors,<br>Linux OS sharing screen with remote |



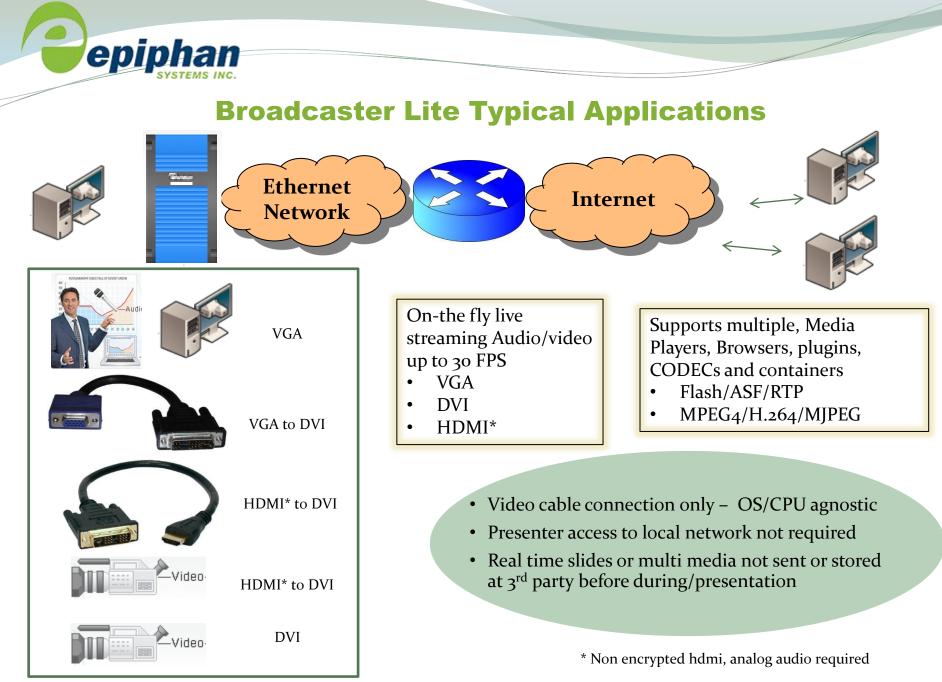
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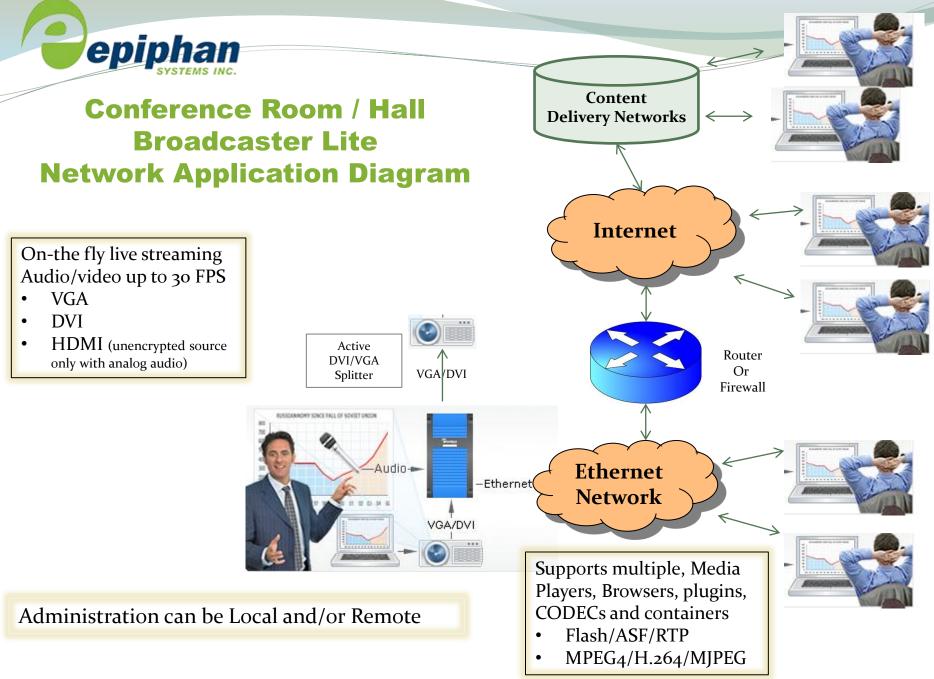


### Epiphan VGA Broadcaster Lite™



## **Applications Guide**





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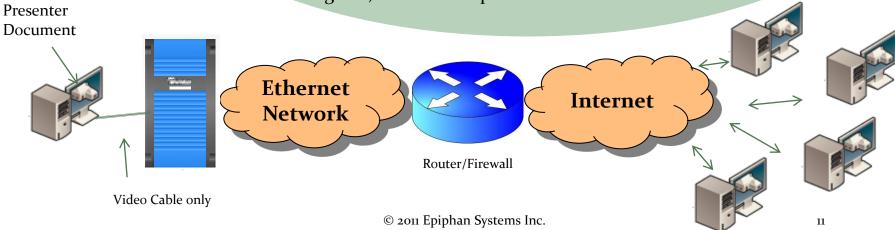
### Audio/Video Conference - Document Sharing "Camera"

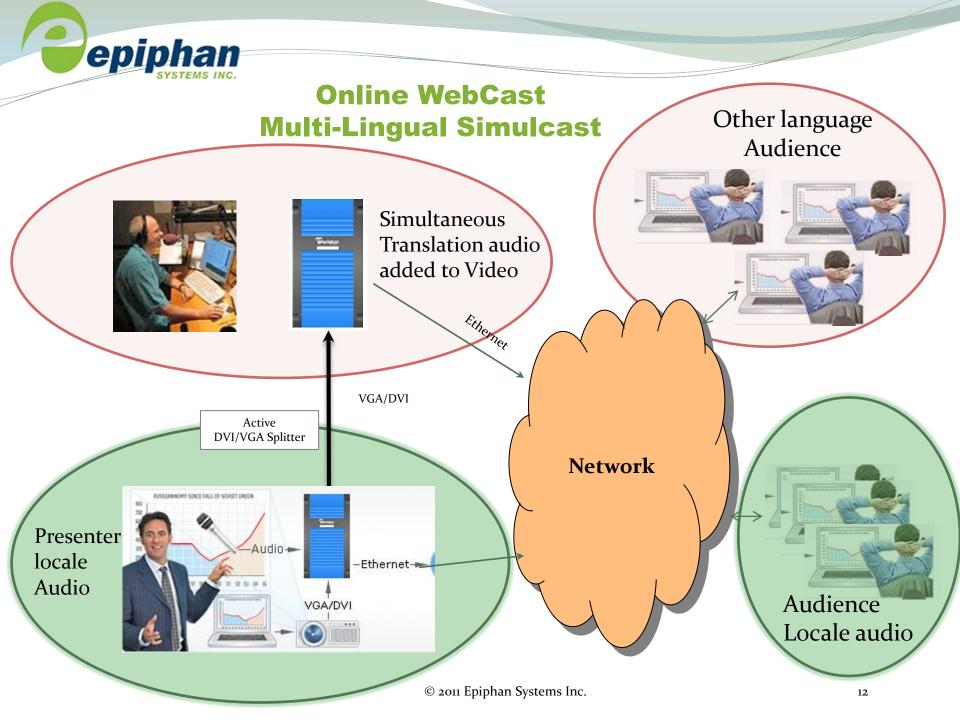


#### Plug and Play –

#### Video Conference – Document Sharing

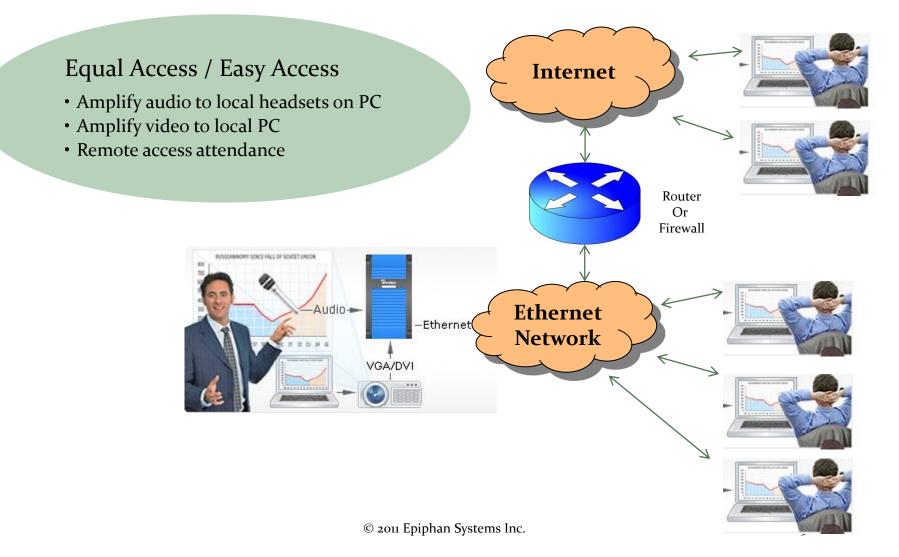
- Video cable connection only
- Share documents while on video conference at conference's shared URL
- Presenter does not require access to corporate networks, email, etc. ("Video firewall")
- No need to send slides via email or host by 3<sup>rd</sup> party
- Attendees will not see slides in advance of presentation
- Documents updated on the fly
- Documents can be "live videos" such as ultrasound, video game, multi media presentations





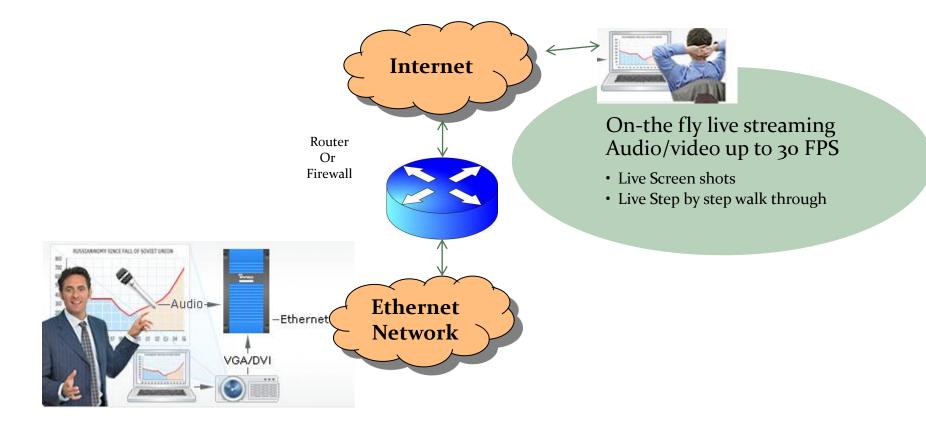


### Conference Room / Hall Assistance for Hearing /Visual/Mobility Impaired



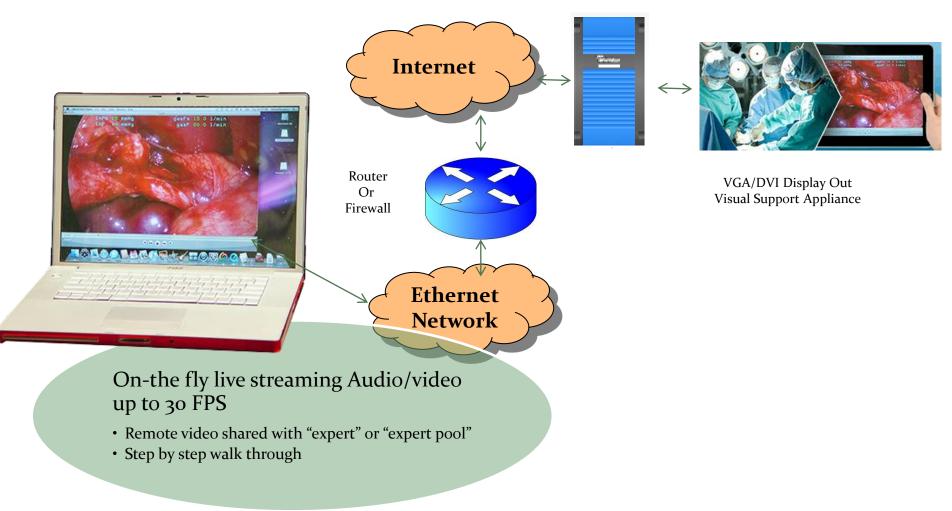


#### Customer Support – Outbound Video Call Center



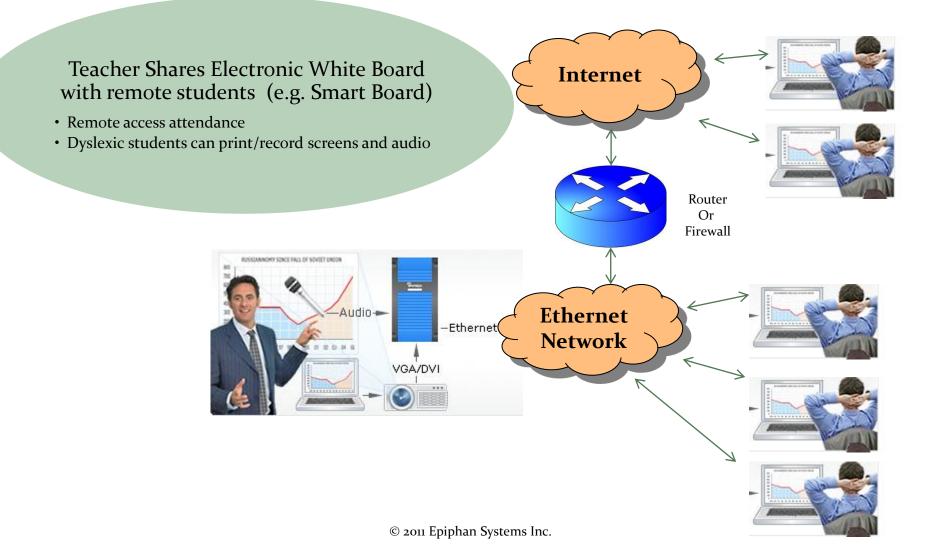


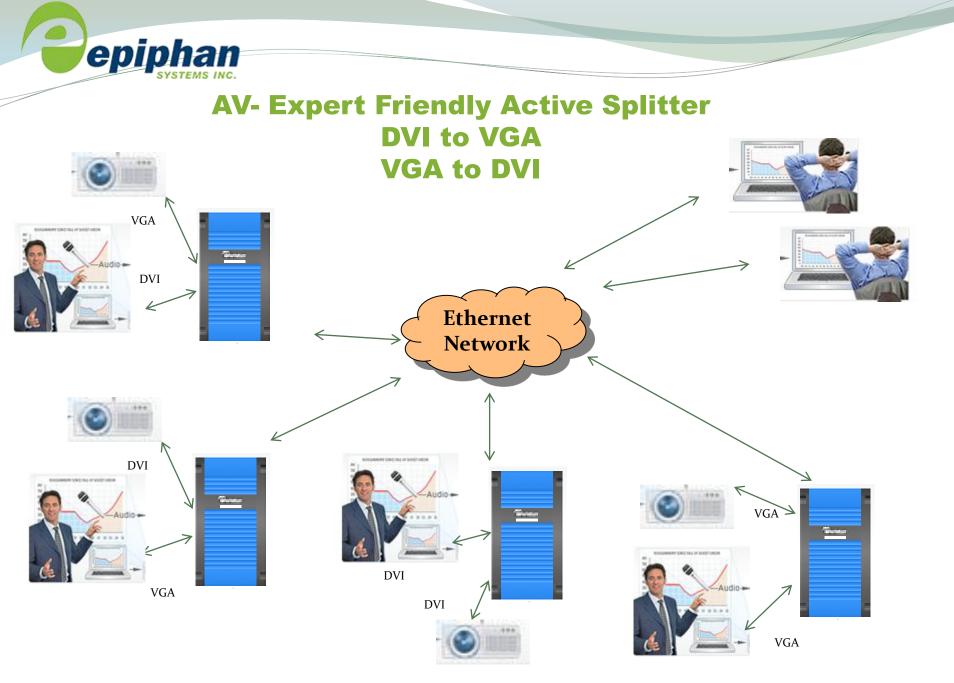
### Virtually There – Remote Expert Customer Support – "Inbound" Video Call Center





### **Education Electronic White Board**

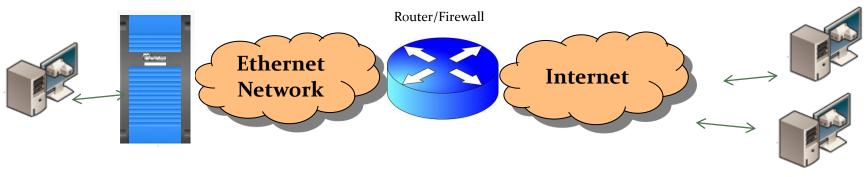




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### **Broadcaster Lite - Other Applications**





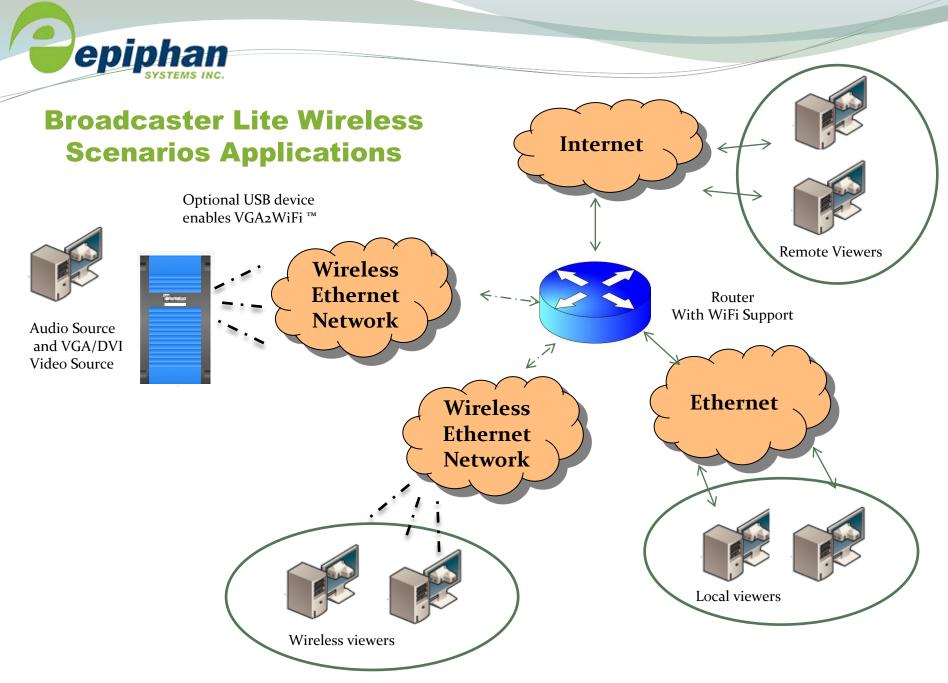




Share Game HD Stream (VGA,DVI, HDMI\*)

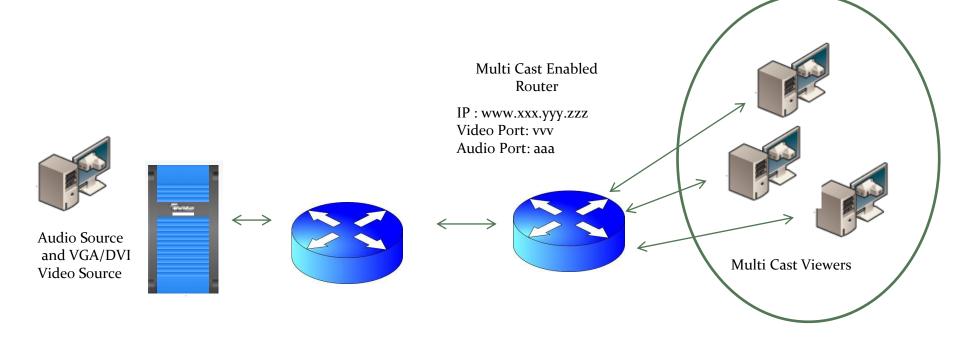
Broadcast VGA/DVI-Out from Ultrasound or other special video source Broadcast audio/video from multiple sites to same "meet me" page

\* Non encrypted hdmi, analog audio required



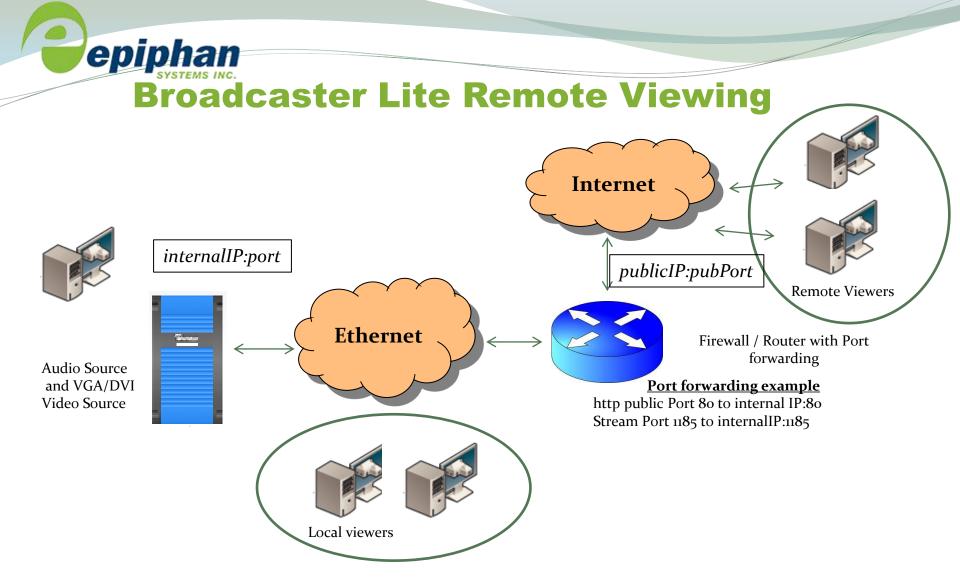


## **Broadcaster Lite Multicast Support**



### Broadcast to more clients using a Multi-cast router

 Configure IP and port numbers to stream broadcast through a multicast service





## **Additional Information**

### Additional Information

- http://www.epiphan.com/products/broadcasting/
- http://www.epiphan.com/products/broadcasting/vga-broadcaster-lite/

Customers like Broadcaster Lite because it is portable, non obtrusive, streams hi-resolution display content at video/audio cable level, no software, CPU/OS aganotic, performance/price

# Thank You



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### **Backup**



### **Epiphan Product Lines**



Our line of VGA frame grabber solutions allow you to capture output from virtually any VGA source.



20+ products 5000+ customers 50+ countries

#### **DVI Frame Grabbers**



Our line of DVI frame grabbers allow you to capture both single-link and dual-link DVI signals with ease.





Other products include KVM, VGA Printer, VGA Ground Loop Isolation VGA/DVI Recording

Our Recorders are unique hardware solutions to view, record and store audio and video content.

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\*Click product family for more details



# **Epiphan Systems Inc.**

- Company Focus
  - High Resolution Video Capture, Broadcast, Recording and Display
- Product Lines
  - Frame Grabbers (<u>VGA</u>, <u>DVI/HDMI</u>)
  - Video Broadcast and Streaming (<u>VGA/DVI/HDMI</u>)
  - Video Recording (<u>VGA/DVI/HDMI</u>)
  - Video Display (<u>Print</u>, <u>Split</u>, <u>Grid</u>, <u>KVM</u>)
- Field Proven Industry Solutions
  - <u>Healthcare</u>, <u>Education</u>, <u>Simulation</u>, <u>Transportation</u>, <u>Security</u>, <u>Computing/ IT</u>, Conferencing, many others



### 20+ products 5,000+ customers 50+ countries



## **Field Proven Industry Solutions**

#### Healthcare (more)

- Hospitals, physicians, equipment vendors, emergency response teams, telemedicine, remote guidance, sport teams
- 250+ Customers (e.g. Henry Ford, GE, NASA, US Olympic Team, eSaturnus, St- Jude, MedTronic)

#### Education, Training, Simulation (<u>more</u>)

- Schools, Simulators, Conferences, Corporate Training, PodCasters, Product Training, useability testing
- 250+ Customers (e.g. U Mich, Uppsala, U California, MIT, Matterhorn Project)

#### Transportation (<u>more</u>)

- Air Traffic Control, Shipping, Subway, Traffic,
- 50+ Customers (e.g. Seabrokers, SkySoft, NASA)

#### Computing/IT ( more ) /Security ( more )

- KVM, Conference Apps, Useability, Risk Management, Critical Infrastructure Protection
- 500+ Customers (e.g.Global 1000, Fortune 100, Hitachi, military)

