

2. Equipment for DVTS

2.1 Standard configuration (Fig. 2-1)

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Standard Configuration

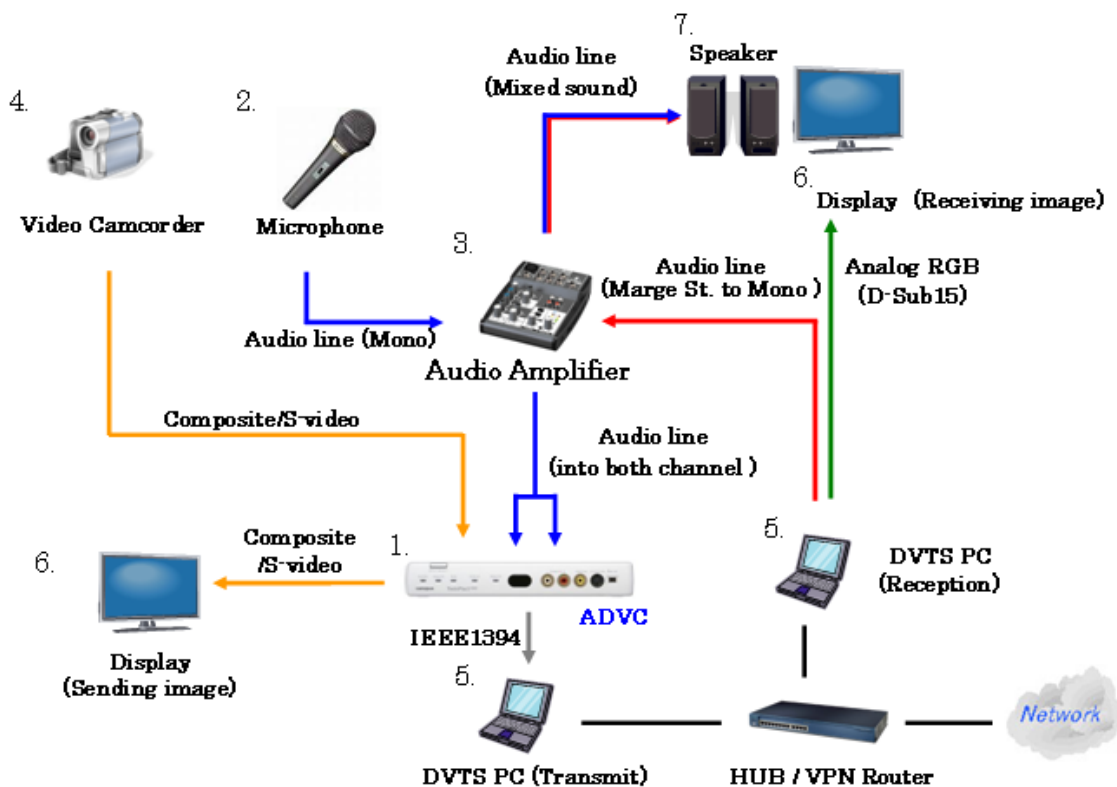


Fig. 2-1 Standard configuration




*Features

- Flexible connection to existing environment in conference venue.
- Fix sound problems caused by stereo source.
- Checkable sound source of transmission and independent handling of transmission and reception sound.
- Load-balanced local network connection by using two PCs for each DVTS PC.
- Redundancy PC allocation against PC trouble.
- Expansable to live demonstration like surgery and endoscopy.


Refer to see 7.1 DVTS Package manual for more information.

2.2 Required equipment and details




1. Analog-digital video converter (ADVC)

 <p>Canopus ADVC 110</p>  <p>Canopus Twinpact 100</p>  <p>Sony HVR-25J</p>	<p>Necessary functions</p> <ul style="list-style-type: none"> -Digital video signal conversion from analog video signal (S-video or composite) -Acceptable NTSC/PAL signal -16bit sound format conversion <p>ADVC 110 fills all requirements above. Twinpact 100 fills above and accepts analog RGB signal additionally. DV recorder like a “Sony HVR-25J” has similar function as above.</p>
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2. Microphone

 <p>Audio-Technica Dynamic vocal microphone PRO-100</p>	<p>Necessary functions</p> <ul style="list-style-type: none"> -For vocal use, unidirectional, Dynamic type, power SW equipped (Vocal microphone for general use fills above.) <p>Many kinds of products are available and it is difficult to distinguish among them. Operation checks are necessary.</p>
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3. Audio amplifier

 <p>BEHRINGER XENYX 502</p>  <p>Yamaha MG102c</p>  <p>Audio-Technica AT-PMX5P</p>	<p>Necessary functions</p> <ul style="list-style-type: none"> -Microphone connectable (Channel for microphone exist) -Wide GAIN(Trim) range (approx +10dBV to -50dBV) - Controllable Sound balance (BALknob) <p>Precaution: A “Line mixer” which is a device similar to an audio amplifier should be disabled, because it can not amplify microphone sound to a high enough level. Operation checks are necessary.</p>
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4. Video Camera

	<p>Necessary functions</p> <ul style="list-style-type: none"> -NTSC signal support -Composite or S-video output - Fixable or tripod mountable <p>Precaution:</p> <p>DVTS MCN (Quatre) accepts only NTSC signal but DVTS software accepts PAL at peer to peer connection.</p>
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5. Personal computer for DVTS (transmission and reception)

	<p>Necessary functions</p> <ul style="list-style-type: none"> -IEEE1394 port (onboard or add-in board) -Connectable external display -Fast Ethernet connection over 100Mbps -Windows Xp model is recommended <p>(We had an experience running DVTS on a Windows Vista PC, but DVTS does not officially support Windows Vista.)</p> <p>Recommended Specifications : OS: Windows XP, CPU: Intel Pentium 4, Celeron or AMD Athlon or later (over 2GHz), RAM: over 256M, Graphic card: DirectX supported, Network card: over 100Mbps, IEEE1394 port: OHCI compatible.</p>
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6. Display (Flat TV (LED, Plasma), Projector)

	<p>Necessary functions</p> <ul style="list-style-type: none"> -Analog RGB or DVI input <p>Display device is a very important factor for image quality. Typically, image quality of flat TV is better than projector one. We recommended using flat unless limitation of venue width, for example.</p>
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7. Loudspeaker

	<p>Necessary functions</p> <ul style="list-style-type: none"> -Adequate output capability for venue size -Useable embedded speaker on TV or PA system equipped at venue -Not required to support "Stereo sound" or "Surround sound"
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8. HUB (Non secure NW)・VPN router (Secure NW required for a live surgery demonstration)

	<p>VPN router is a fundamental device to ensure patient privacy at live demonstration like a surgery or endoscopy. We use “IPsec (Internet Protocol Security)” for encrypted transmission.</p> <p>We support VPN routers which are sold by Allied Telesis co, Ltd , named “AR550S, AR570S (for Japan) and “AT-AR750S(world wide)</p> <p>Using VPN routers provided by other companies is difficult because of compatibility among these products.</p>
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