










CHI DUC COMPANY LIMITED



-  **VIDEO WALL SOLUTIONS**
-  **DESIGN AND INTEGRATE STUDIO SYSTEMS**
-  **DESIGN AND INTEGRATE VIRTUAL STUDIO SOLUTIONS**
-  **DESIGN AND INTEGRATE MASTER CONTROL ROOM SYSTEMS**
-  **DESIGN AND INTEGRATE STUDIO LIGHTING SYSTEMS**
-  **PROVIDING 4K SYSTEMS AND INTEGRATION**
-  **DESIGN AND INTEGRATE MOBILE OBVAN**

KEY CUSTOMERS



QUỐC HỘI

VTV1 HD

VTV2 HD

VTV3 HD

VTV5 HD

VTV8 HD

VTV9 HD



Chi Duc Co. Ltd. (CDC Ltd)

Innovating Broadcasting, Empowering Vision

Founded on May 10, 2000, Chi Duc Co. Ltd. (CDC Ltd) is headquartered at 88 Pham Huy Thong, Ba Dinh District, Hanoi. With over 20 years of experience, CDC Ltd has become a trusted partner in system integration, installation, and equipment provision for the Broadcasting and Television industry. With over 20 years of experience in implementing projects in the field of Broadcasting and Television, along with close collaboration with foreign product and service providers, we consistently deliver perfect solutions and services to our customers, along with the most advanced equipment.

We specialize in providing solutions for digital image and sound editing, meeting all needs from simple to complex.

Our strengths lie in consulting, designing, and constructing production network systems, central storage using SAN/NAS technologies, automated broadcasting server systems, graphics and CG systems for television, signal processing systems in studios, and overall control systems, utilizing the most advanced technologies.

Through close collaboration with international product and service providers, we ensure that customers receive perfect solutions and services, accompanied by the most advanced equipment.

Our experienced and dedicated technical team continuously strives to research and innovate, meeting the most demanding technical requirements and ensuring customer satisfaction.

Chi Duc Co. Ltd is proud to contribute to the advancement of the Broadcasting and Television industry through high-quality service and state-of-the-art solutions.

SOME ACTIVITIES OF CHI DUC



DESIGN AND INTEGRATION OF AUTOMATIC BROADCASTING SYSTEM - MASTER CONTROL



Our automatic broadcasting system supports television networks with configurations ranging from a single channel to hundreds of channels. Built on technology from Vector3 (Spain) - a global leader in broadcasting solutions used by over 1,000 channels worldwide - the system offers full automation and multiple backup options, ensuring the highest level of safety and reliability for broadcasters.

The system is fully automated, guaranteeing continuous broadcasting with built-in redundancy. It supports all encoding standards used in the television industry, ensuring maximum flexibility and compatibility. Key integrated tools include real-time graphics overlay, customizable logo insertion for enhanced branding, and simultaneous broadcasting and recording capabilities from multiple sources.

Designed for seamless integration with existing television industry processes and equipment, the system offers customization options to meet specific customer requirements, making it adaptable for broadcasters of any scale.

Trusted by leading broadcasters in Vietnam, this solution has been adopted by: Vietnam National Assembly Television; VTV8 and VTV9; MyTV Channel (VASC Company); Quang Ninh Radio and Television Station; Thai Nguyen Radio and Television Station; Hung Yen Radio and Television Station

Combining reliability, advanced functionality, and seamless integration, our broadcasting system is the perfect solution for modern television networks



DESIGN AND INTEGRATION OF MOBILE OBVAN



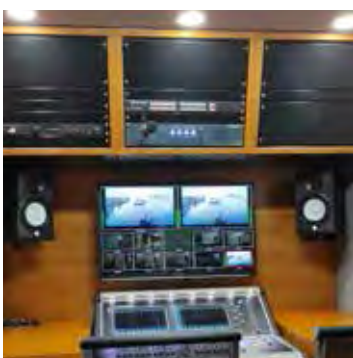
Our mobile broadcasting vehicles (OBVAN) are the perfect solution for seamless outdoor broadcasting.

Designed to support setups from 4-camera to 8-camera configurations, these vehicles are fully customizable to meet your specific operational needs.

Each OBVAN is built with tailored workflows, specialized designs, and versions ranging from HD to 4K/UHD, ensuring compatibility with today's standards and readiness for future 4K/UHD content production.

To deliver high-quality, integrated solutions, we use products from leading global manufacturers, including For-A, Panasonic, Sony, Imagine Communication, Matrox, AJA, Clear-Com, Canare, Shotoku, Canon, and more.

With a focus on innovation and reliability, our OBVAN solutions empower broadcasters to excel in outdoor production.



DESIGN AND INTEGRATION OF STUDIO SYSTEMS



We provide tailored solutions for news studios, discussion panels, and talk shows, using equipment from leading brands to ensure top quality. Our services include integrating: Audio/Video equipment; Sound systems; Lighting system; Studio décor

With a focus on quality and customization, we deliver studio systems designed to meet your broadcasting needs.



PROVIDING SOLUTIONS AND INTEGRATING 4K SYSTEMS (12G-2SI-QUADLINK) AND IP

To meet the growing demand for 4K/UHD image quality in the high-definition television industry, we continuously develop advanced broadcasting solutions. Our 4K/UHD systems are optimized for studio control rooms and mobile broadcasting vehicles (OBVANS), offering cutting-edge performance and reliability.

Our solutions utilize 12G-SDI, 2SI/Quad Link, and IP transmission technologies, ensuring seamless integration and streamlined workflows. While traditional 4K/UHD workflows often require multiple connections (e.g., four 3G-SDI or two 6G-SDI), 12G-SDI technology simplifies the process by enabling 4K transmission over a single cable.

With a focus on innovation and efficiency, our 4K/UHD solutions deliver unparalleled quality for modern broadcasting needs.



DESIGN AND INTEGRATION OF GRAPHIC SOLUTIONS IN THE TELEVISION INDUSTRY



We provide cutting-edge broadcasting graphic solutions with VisualCG 3D HD/SD from VRI, a global leader in 3D graphics for television. This system has been successfully implemented in high-profile events such as the AI Games 2009 and is trusted by broadcasters worldwide.

The VisualCG 3D system supports various dynamic effects and real-time 3D capabilities, allowing seamless integration with popular design software like Photoshop, 3DS Max, Illustrator, and Maya. It enables detailed, real-time processing of multiple layers of dynamic graphics, ensuring information-rich and visually engaging on-screen displays.

With its versatile configurations, the system is suitable for control rooms, studios, and mobile broadcasting units, offering flexibility for diverse broadcasting environments. Designed for ease of use, it features a user-friendly interface that simplifies control, template creation, and program inputs. API support also ensures smooth integration into existing workflows, making it ideal for applications like interactive game shows.

This solution has been adopted by major domestic broadcasters, including Voice of Vietnam Television (VOV TV), as well as studios of VTV, VTV8, and VTV9, along with other provincial and city stations. Offering robust capabilities and seamless performance, VisualCG 3D is the perfect choice for modern television graphics.



DESIGN AND INTEGRATION OF SOLUTIONS FOR CAMERA TRACKING, TRACK FREE IN VIRTUAL STUDIO

Virtual studios are transforming content production by combining cost-saving virtual technology with enhanced image quality and engaging content. Our 3D virtual studio system integrates modern equipment and software designed to seamlessly operate and manage virtual environments.

We provide flexible options for Camera Tracking and Track Free technology to suit diverse customer needs. The Camera Tracking system determines camera movements and identifies objects within a 3D virtual space, making it ideal for complex production setups. The TrackFree system is an independent solution that works with any camera to create 3D virtual



environments, allowing operators to simulate virtual spaces and easily manage camera angles.

This comprehensive solution is perfectly suited for today's television stations, ensuring high-quality virtual production. We work with industry leaders such as BrainStorm3D, Shotoku, and Panasonic to deliver cutting-edge virtual studio systems.



VIDEO WALL SOLUTION IN THE STUDIO



We offer advanced, cutting-edge products and technologies for video wall solutions in the television and media industry.

Our video wall solutions, including LCD video walls and LED video walls, provide customers with versatile options tailored to their specific needs.

To ensure the highest quality and reliability, we collaborate with renowned brands, giving our customers confidence and peace of mind when using our solutions.



DESIGN AND INTEGRATION OF LIGHTING SYSTEMS IN STUDIO ENVIRONMENTS



Studio lighting is a critical factor in achieving exceptional image quality. With years of experience in the field, we provide tailored solutions and expert design consulting to help customers make the best choices for their needs.



We supply lighting equipment from leading global manufacturers and have successfully implemented projects for prominent broadcasters, including Vietnam National Assembly Television, Hung Yen Television, Nhan Dan Television, and many other major television stations.

DEPLOYMENT OF THE PRODUCTION NETWORK SYSTEM PROGRAM (SAN-NAS) AND PROVISION AND INTEGRATION OF POST-PRODUCTION EQUIPMENT

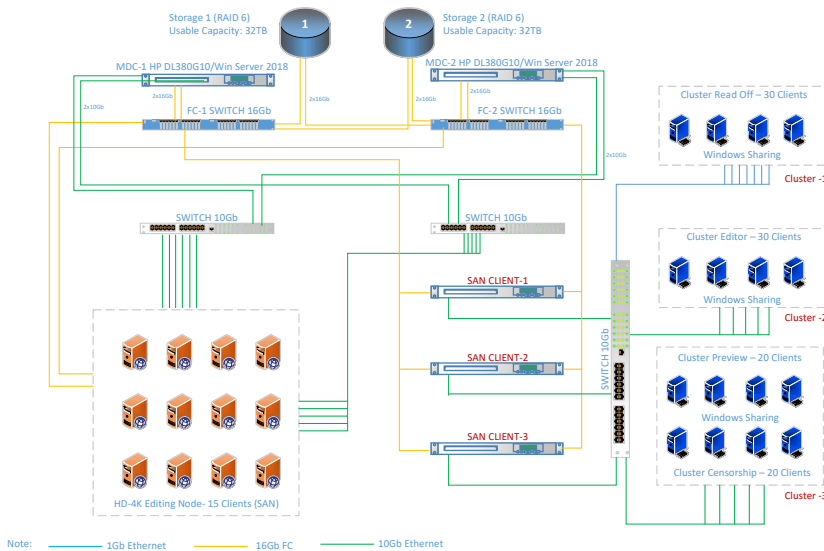
We offer the most advanced television production network system available, utilizing SAN (Storage Area Network) technology. This system provides exceptional bandwidth, enabling all workstations to share a central storage system with a capacity of up to hundreds of terabytes, ensuring seamless and efficient workflows.

Our company has extensive expertise in production equipment, with years of experience providing high-quality Audio/Video post-production editing products. We specialize in delivering advanced post-production solutions from leading manufacturers, tailored to meet the needs of modern broadcasters.



2x INFORTREND EonStor D5 4000 Gen2 2U/24bay (DS4024RUCB00L-8832)
Config per each: 24x 1.6TB Kioxia 2.5" SSD; 8x 16Gb/s FC ports, type2. More than 750K end-to-end IOPS

SAN SYSTEM DIAGRAM



PROVIDING SPECIALIZED EQUIPMENT FOR BROADCASTING - TELEVISION



We offer a comprehensive range of specialized equipment for broadcasting and television, featuring products from leading global manufacturers, including Matrox, Harris, Panasonic, Canon, Shotoku, Sony, Vector 3, Tiger-Technology, Infortrend, Tektronix, ATTO, and Rorke Data...

All products are sourced directly from manufacturers or authorized distributors, ensuring authenticity and reliability. We provide exceptional technical support and warranty services, giving our customers complete confidence in their broadcasting solutions.



TRAINING ORGANIZATION AND TECHNOLOGY TRANSFER

We organize specialized training courses for television units nationwide, offering in-depth programs on program production networks, digital broadcasting, Audio/Video editing skills, and system management training.

In collaboration with our partners, we also arrange international training programs for technical staff of television stations. These programs aim to enhance expertise, update knowledge, and stay ahead of the latest technologies in broadcasting.



Panasonic

- Cameras for television
- Video switchers and specialized television equipment



BRAINSTORM

- Professional 3D graphics solutions for television
- Virtual studio systems
- Video wall control systems



- High-capacity, stable, and secure data storage solutions



- Hardware and software solutions for television
- Specialized signal processing devices: signal converters, multiview, encoders, and decoders



- Tripods and accessories
- Automated robotic tripod systems for studios
- Cranes and related accessories



- Signal processing and transmission solutions
- Multiviewer display equipment
- Video switching equipment, video mixers, and routers



VECTOR3

NRDmultimedia

- Automated multi-channel broadcasting solutions for overall television management
- Solutions for automatic signal reception and recording from satellites and VTR
- Broadcasting control solutions for studios
- Delay broadcasting solutions for signal verification of foreign channels



- Camera lens for television



- Specialized lighting equipment for studios



- Specialized audio/video signal cables for broadcasting and television



- Central storage solutions using SAN technology



- High-performance workstation computers for audio/video editing systems
- Servers and mobile workstations for on-site rendering



- Consulting, designing, and integrating broadcasting and television systems
- Authorized dealer of specialized broadcasting equipment



- 3D HD/4K graphic text broadcasting solutions
- Professional 3D graphic creation software








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