

Dolby Cp650 Installation Manual



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For two conductor with shield wiring, use Belden 8451 2conductor shielded cable or equivalent tinned copper, twisted pair, 22 AWG stranded tinned copper drain wire, aluminumpolyester shield, 100% shield coverage, conductortoconductor 111 pF per meter. 4. 5. For three conductor with shield wiring, use Belden 8771 3conductor shielded cable or equivalent tinned copper, twisted pair, 22 AWG stranded tinned copper drain wire, aluminumpolyester shield, 100% shield coverage, conductortoconductor 75 pF per meter. All shields must be connected to the CHASSIS of the CP650. This achieves the required RF interference immunity. A metal housing must be used for all Dconnectors and the shields must be connected to the housing. Chassis ground and circuit audio ground are internally connected. Thank you, for helping us keep this platform clean. The editors will have a look at it as soon as possible. The Dolby CP650 is a selfcontained, alldigital cinemaSR, Dolby Atype, and. Academy mono film sound playback. The CP650 provides inputs for two projector soundheads bothPA Microphone. Its audioEthernet connection, enablingFor decoding analog soundtracks, the CP650's stateoftheLaboratories' own rigorous standards. Reductions in the costAn easytoread LCD screen, plus simple frontpanel formatCP650. Installation is furtherSurround, Back Surround Left,A digital parametric Equalizer isEasilyprogrammed internal software manages most existing orWhile an external PC is not required for setup, aCalibration settings for a given theatre can be stored on a. PC, and, if necessary,As improvements to thePC to the CP650, Updates to the digital processing used for. Dolby DigitalFigures. vii. List of TablesIntroductionAvailable. 12Soundtracks. 19System. 21Microphone. 24Locations. 212. Wiring Diagram Input and

ControlOutputs. 214. Wiring Diagram Audio Outputs for Bi-amplified Screen. Speakers. 215. Wiring Diagram Audio Outputs for Tri-amplified Screen. Speakers. 216. System Signal Flow ChartPanel. <http://www.celte-29-31.fr/userfiles/10ml-ii-owners-manual.xml>

36 Check Theatre Equipment Calibration. 44 Channel. 48 Calibration. 425. Final Sound Check Rotating Pink Noise Overview Projector. 52. Dolby Level Set Check. 56. Cell Alignment Check Check. 58. Focus Check Mechanical Alignment Oscilloscope. 62. Focus Adjustment Setting Bypass Level Delay. 72. Setting Digital Surround Delay Delay. 75. Nonsync Level Adjustment Adjustment. 78. Assigning Preset Fader Levels Mode. 712. Auto Surround EX. Disable. 712. Noise. Gating. 713. Running Auditorium Assist Check. 716 Adjustment. 720. Introduction Housing. 82 Cable. 82 Unit. 84 Maintenance. 91 Ranges. 96 Log. 98 Cover. 918. Wiring Diagram Power Supply, Gold Cover Appendix C Optical Surround Level Trim. Appendix D Format Descriptions Definitions. D1 Definitions. D2. Appendix E External Control of CP650 Menu. List of. Figures. List of Tables Operating System Software. History. viii. Chapter 1 Available. 12 Soundtracks. 18 System. 21 Locations. 211. Wiring Diagram Input and Control Panel. 31 Panel. 35 Setup. 43 Calibration. 44 Channel. 46 Calibration. 413 Projector. 52 Check. 58 Oscilloscope. 62 Readers. 63. Final Adjustments Adjustment. 71 Delay. 71 Delay. 74 Adjustment. 77 Levels. 7 Mode. 710 Disable. 710 Gating. 711 Adjustment. 712. Chapter 8 Maintenance. 91 Ranges. 96 Diagrams. 917 CP650s. A2. Appendix B Back Panel Connectors. Appendix C Optical Surround Level Trim. Appendix E External Control of CP650 Connector. Menu. It can also accommodate new technologies such as digital cinema, ensuring a long and useful product life. It also provides four AES3 inputs for digital cinema audio. To these features, the top of the line CP650XO adds built-in crossovers for screen speakers, eliminating the need for a standalone crossover unit. For tighter budgets, the CP650SR comes equipped to process Dolby SR and A-type analogue soundtracks only, while the CP650D adds Dolby Digital decoding; neither of these models includes Dolby Digital Surround EX decoding or digital audio inputs.

However, as your needs change and new formats are introduced, you can upgrade any CP650 configuration with plugin circuit cards and new software. For digital cinema installations that do not require replay of film sound tracks, the CP650DC provides digital audio inputs for connection to a digital cinema server whilst removing the additional cost of 35mm support. The CP650 is most efficiently installed and calibrated with the help of a laptop PC running comprehensive setup software available in several languages. Calibration can also be accomplished using the CP650's front panel controls and main display. Software upgrades are conveniently accomplished from a PC. The Dolby CP650 is the best investment you can make in a cinema processor. CP650 Digital Cinema Processor Next The Dolby CP650 is the best investment you can make in a cinema processor. The. Page 2 Dolby CP650 Digital Cinema Processor. CP650 Front Panel CP650 Rear Panel. Setup Control Panel Access Door Menu Buttons Format Buttons. Page 3 Dolby CP650 Digital Cinema Processor. Page 4 Key Upgrades and Options. Model CP650. Digital Cinema Sound. Processor. Installation Manual. Issue 2 Part No. 91569. CP650 Installation Manual. Dolby Laboratories, Inc. Corporate Headquarters. Dolby Laboratories, Inc. San Francisco, CA 941034813. Telephone 4155580200. Facsimile 4158631373 European Headquarters. Wootton Bassett. Wiltshire, SN4 8QJ, England. Telephone 44 1793842100. Facsimile 44 1793842101. DISCLAIMER OF WARRANTIES Equipment manufactured by Dolby Laboratories is warranted against defects All warranties, conditions or other LIMITATION OF LIABILITY It is understood and agreed that Dolby Laboratories liability whether in contract, Dolby, EQ Assist, Surround EX, and the double D symbol are trademarks of Dolby Laboratories. All other trademarks remain All rights reserved. Issue 2. Part No. 91569. Software Version 1.2.x.x. Table of Contents. List of Figures vi. List of Tables vii. Operating System Software History viii.

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Chapter 1 Introduction Chapter 2 Installation Wiring Diagram Input and Control 212. Wiring

Diagram Audio Outputs 213. System Signal Flow Chart 214. Chapter 3 Front Panel and Alignment Overview CP650 Installation Manual. Chapter 4 BChain Alignment Chapter 5 AChain Alignment Chapter 6 Digital Soundheads Inboard Digital Readers 63. Chapter 7 Final Adjustments CP650 Installation Manual Chapter 8 Accessories Chapter 9 Maintenance and Troubleshooting Power Supply Wiring Diagrams 917. Appendix A Software Operations. A.1 Updating CP650 Software A1. A. 2 Transferring Settings Between Two CP650s A 2. Appendix D Format Descriptions. D. 1 Channel Definitions D1. D. 2 Format Definitions D2. Appendix E External Control of CP650. E. 1 Control Via RS232 Serial Data Port E1. E. 2 Control Via Remotes Connector E4. Appendix F Setup and User Menus. F. 1 CP650 Setup Menu F 1. F.2 CP650 User Menu F3 CP650 Installation Manual. List of Figures. Figure 12 Photograph of Film Soundtracks 18. Figure 13 Film Soundtrack Identification 18. Figure 21 Main Fuse Assembly 22. Figure 22 Star Washers and Rack Mounting Screws 23. Figure 23 Cell Preamp Wiring Using Two 3Conductor Shielded screened Cables 26. Figure 24 Cell Preamp Wiring Using One 5 or 6Conductor Shielded screened Cable 26. Figure 25 Cell Preamp Wiring Using Two 2Conductor Shielded screened Cable 27. Figure 26 Cell Preamp Wiring Using One 4Conductor Shielded screened Cable 27. Figure 28 Model CP650 Exploded View 211. Figure 31 Front Panel Controls 31. Figure 32 Front Panel Display 32. Figure 33 Fader Characteristic 33. Figure 34 CP650 Operation and Setup Menu Control Buttons 34. Figure 35 Setup Control Panel 35. Figure 36 Power Supply Voltage Test Points 36. Figure 41 EQ Microphone Placement 42. Figure 42 EQ Assist Operating Range 410. Figure 61 Digital Soundhead Adjustments 61. Figure 62 Digital Video Oscilloscope Image Focus Adjustment 63. Figure 63 Cat. No. 701 FED Brightness Adjustment 63. Figure 81 Cat. No.

779 Remote Control Functions 82. Figure 82 Location to Drill Wiring Hole on Remote Control 83. Figure 83 Remote Control Circuit Board Connector 83. Figure 84 Remote Control SW1 Address Switch Location 84. Figure 85 Connection of Remotes to the CP650 85. Figure 92 Cat. No. 701 FED Assembly Mounting Screws 92. Figure 93 Cat. No. 701 FED Assembly Wiring 92. Figure 94 Cat. No. 701 FED Assembly Initial Gap Setting 92. Figure 95 Scope Display of CP650 Video Test Point Signal 94. Figure 96 Adjust Cat. No. 701 FED Assembly for Optimum Video Signal 94. Figure 97 Cat. No. 701 FED Drive Current Setting 94. Figure 98 Cat. No. 700 Digital Soundhead Exciter Lamp Replacement 95. Figure 99 Power Supply Voltage Test Points 96. Figure 910 Model CP650 Exploded View 97 List of Tables. Table 11 Formats Supported by the CP650 16. Table 21 Solar Cell Preamp Board Connectors 25. Typical operating level 10 dBu with fader set to 7. Operating range 20780 mV. Introduction. Other Connections. Cat. No. 779 remote control unit and Cat. No. 771 remote fader connector terminals Connectors front and rear for external PC control and setup, RS232C Hearing impaired output center weighted sum of L, R, and C, output Automation connector for controlling and indicating format, fader select, and mute. Interface similar to Model CP65. Connector for Ethernet link future use, RJ45 connector. Dolby Decoding Four channels, Dolby A type. Two channels, Dolby SR. Dolby Pro Logic. Loudspeaker Equalization. SW digital parametric with 12 dB cut capability. Distortion. Typically 0.005% in Dolby SR mode output 10 dBu, input 10 dB over Dolby level. Dynamic Range. Typically 99 dB with fader set to 7. Dimensions and Weight Weight 10.4 kg 23 lbs.. Shipping Weight 13.6 kg 30 lbs.. Power Requirements. Main supply 100120 and 200240 VAC, 5060 Hz, 100 W max. Builtin bypass power supply. Unit designed to operate from a centrally switched power source.

Introduction Dolby Digital Surround EX adds a third surround channel to digital film sound, a Dolby Digital Surround EX gives sound mixers a new level of creative freedom. Dolby Digital Surround EX is fully compatible with all current 5.1 digital sound It has long been known that a center screen channel is necessary to ensure the precise The back surround channel also makes frontto back and backto front transitions Equally important, the new back surround channel assures that Surround EX process. The installation requires wiring the surround speakers into left, Two power amplifier

channels are required. The figures on the Auto Surround EX. On Dolby Digital soundtracks that contain a data bit signifying Surround EX Introduction. Dolby Digital Back surround left. Back surround right. Dolby Digital. Surround EX mode. The formats supported by the CP650 are listed below. See Appendix D for complete Table 11 Formats Supported by the CP650. Format. Description Short name Mono Short name Dolby A type Short name Dolby SR Short name Dolby Digital Introduction. Table 11, continued Formats Supported by the CP650. Description Short name Surround EX Short name 3Channel Mag Short name 4Channel Mag Short name 70 mm Dolby A type Short name Public Address, C Short name Public Address LsRs Short name Video PA NS1 Short name Video Mono NS1 Short name Video LCR NS1 Short name Vid Pro Logic no SW Short name Master Digital In Short name Dolby SR 6Ch In Short name Dolby SR NS1 Introduction Edge of film Dolby Digital soundtrack Analog soundtrack Picture area. Figure 12 Photograph of Film Soundtracks. A Dolby Digital, Dolby Digital Surround EX, stereo optical Dolby A type or SR, or However, with handling, the identification may be lost. If neither is available, close Digital data blocks SR track. Dolby Digital or Dolby Digital. Surround EX Print. The digital data is clearly visible Dolby SR encoded. Analog Dolby SR or A type Print. Clear differences between the stereo Analog Mono Print.

Both tracks are the same. Figure 13 Film Soundtrack Identification Introduction These limits are designed to This equipment generates, uses, and can Operation of this equipment in a residential area is likely to cause harmful This Class A digital apparatus complies with Canadian ICES003. Check that the To reduce the risk of fire, replace only with Exposed portions of the power supply assembly are electrically "hot." In order to The ground terminal of the power plug is connected directly For continued protection against Do not use a ground This apparatus must be earthed. Introduction This equipment complies with the EMC requirements of EN551031 and EN551032 when operated in an E2 The unit shall not be exposed to dripping or splashing and no objects filled with liquids, To ensure safe operation and to guard against potential shock hazard or risk of fire, the Ne pas exposer cet appareil aux éclaboussures ou aux gouttes de liquide. Ne pas poser des objets Pour vous assurer d'un fonctionnement sans danger et de prévenir Das Gerät darf nicht mit Flüssigkeiten Spritzwasser usw. in Berührung kommen; stellen. Sie keine Gefährliche, z.B. Kaffeetassen, auf das Gerät. Für das sichere Funktionieren des Gerätes und zur Unfallverhütung elektrischer Schlag. Feuer sind die folgenden Regeln unbedingt einzuhalten II prodotto non deve essere sottoposto a schizzi, spruzzi e La unidad no debe ser expuesta a goteos o salpicaduras y no deben colocarse sobre el Para asegurarse un funcionamiento seguro y prevenir cualquier posible peligro de descarga o Enheten får ej utsättas för yttre åverkan samt föremål innehållande vätska, såsom Dit apparaat mag niet worden blootgesteld aan vocht. Vanwege het risico dat er Voor een veilig gebruik en om het gevaar van elektrische Chapter 2. Installation. Do not connect the CP650 to mains power until all connections have been made.

If airconditioning noise is audible in the theatre, arrange for lubrication of the motor, If the airconditioning cannot be repaired switch it off If the CP650 replaces an existing cinema sound system, play a typical film before you While you run the film, listen carefully in various parts of the theatre for audio system These problems must be resolved before you can proceed with the new installation. Installation Leave the cables A WARNING Check that the correct main fuse has been installed. To reduce The CP650 uses a universal switching power supply that can accommodate nominal Check Main Fuse. The main power supply fuse is a 6.3 Amp, 250V, 20 mm, timelag, low breaking Figure 21 Main Fuse Assembly. Remove the fuse carrier and check that the fuse in the active left position is of the Do not force the carrier into the compartment. Damage will Snap the fuse compartment door closed. Check Bypass Supply Mains Voltage Setting. The bypass power supply mains voltage selector switch is accessible through a hole Use a screwdriver to set the switch to either 120 or Caution Be sure to check this setting. If the bypass voltage selector is set to 120 V and the Installation. Bypass Power Supply Fuse. The bypass power supply fuse is accessible by

removing the plastic front panel and. The fuse values are. For 110 Vac Mains. T 200 mA L timelag, 200 mA, 20 mm, low breaking capacity, 250 V. For 220 Vac Mains. T 100 mA L timelag, 100 mA, 20 mm, low breaking capacity, 250 V. Caution Early CP650s used a 315 mA fuse for all mains voltages. The fuse ratings Internal Fuse. The switching DC power supply contains a separate internal fuse, not accessible to Do not remove the power supply cover. The CP650 If this fuse blows, the power supply has To avoid heat problems, do not mount the Dolby CP650 immediately above or below Locate the power amplifiers away from the CP650 to avoid. CP650 to provide adequate ventilation.

Install an air guide or baffle to deflect hot air To ensure good ground contact, install a star washer on at least one and preferably This will also aid in Proper shielding and termination of cables and cable assemblies are also very If you are installing a Dolby Cat. No. 701 Digital Soundtrack Reader, refer to its Installation Refer to the appropriate foldout pages at the end of this chapter showing Shields must be connected as shown in the foldout pages to avoid radio frequency Note Follow all local codes and regulations covering electrical wiring. It is Connector shells have been included in your installation kit for use in countries that The shells must be used as noted on the foldout For twoprojector installations, motor start relays are required for projector Projector motor start contact closures Isolated contact closures from mechanical or opto Refer to the Installation. Wiring Inputs and Control diagram at the end of this chapter. Signal levels. Motor Start Less than 1 Vdc with respect to signal ground. Motor Off Greater than 3.5 Vdc, less than 18 Vdc. If the CP650 is to be used in a platter operation single projector, a jumper must be Three types of remote controls can be used with the CP650. The Cat. No. 779 CP650 Remote Control Unit duplicates the frontpanel format The Cat. No. 771 Remote Fader duplicates the frontpanel main fader knob and A customersupplied 100k linear pot, wired as a variable resistor, can also be used. Minimum pot resistance corresponds to a front panel fader setting of maximum 10. Details on how to connect any of these remote controls to the CP650 are shown in. Chapter 8 and in the Installation Wiring Input and Control drawing located at the Installation Most new projectors sold around the world incorporate a reversescan LED analog The Dolby Cat. No.

655 solar The output of the solar cell Some care needs to be given to the wiring In principle, this means separating the audio The 0 V point audio ground must be connected from the inboard reader board to the. CP650 by a separate wire or wires along with the audio signal wires. The cable It must be The following diagrams show two connectors on the Cat. No. 655 circuit board. The The signal output Note The physical orientation of the board mounting in the projector and the orientation of the connector body Be aware that pin The J2 connector pin solder hole with a square outline is pin 1. Table 21 Solar Cell Preamp Board Connectors. J2 Pin Number. Signal J1 Pin Number. Power from CP650 There must be a connection between the ground pins at the Cat. No. 655 solar cell This connection must not use the Pin numbers 6 and 9 of each ninepin D connector "Projector" on the CP650 allow The wire that connects either of these pins to the. Cat. No. 655 audio ground should pass inside the same shield as the optical input Installation. Figure 23 Cell Preamp Wiring Using Two 3Conductor Shielded screened Cables. Figure 24 Cell Preamp Wiring Using One 5 or 6Conductor Shielded screened Cable Installation. For NonEU Countries Only. If you find it necessary to use 2 or 4conductor shielded cables, use the following Figure 25 Cell Preamp Wiring Using Two 2Conductor Shielded screened Cable. Figure 26 Cell Preamp Wiring Using One 4Conductor Shielded screened Cable The CP650 has two sets of analog nonsync inputs, designated nonsync 1 Format 60, The input impedance is 1 1 k2. They both have a wide Installation With a Cat. No. 794 board installed, the CP650 is capable of handling input Possible digital sources include a CD player. DVD player, satellite television receiver, HDTV receiver, or HD video player. The See manual Section 7.8 and 7.9.

Bitstream Format for the Digital Audio Input This is a single bitstream that contains the data for two It can handle sampling rates of up to 48 kHz with up to 24 CD player, DAT recorder, or any basic

piece of digital audio equipment. Connecting to the Digital Audio Input. The Cat. No. 794 board contains the processing for the digital audio bitstream. The CP650 rear panel. Connection is made by soldering the digital audio cable to the RCA or BNC output connectors, then the Cat. No. 794 board must be removed and Installation. Interface Standards for Digital Audio. There are two interface types for digital inputs using copper conductors nonoptical. Even though there are differences in the connectors One interface can be easily converted to the other if necessary. The standard defines a balanced input two conductors plus Equipment incorporating Most professional audio equipment utilizes The cable, however, is Any professional audio equipment or broadcast supply Use of cables not designed for llofl digital transmission Professional video equipment uses a variation of this interface, where the peakto Like the use of XLR connectors on pro audio Again, you can use highquality 75 2 video cables with BNC Installation. Multiple Sources — Conversion Between Interface Standards. If you intend to switch between multiple digital audio sources, DO NOT attempt to RCA plug. This will cause an impedance mismatch and signal reflections, resulting in It may seem to work, but the results will prove With one digital audio input on the CP650, it may seem difficult to switch between It is actually easy to convert A simple and economical method is to use inline With the digital outputs of all BNCtoRCA adapters can be added. The units listed below are of the “passive” Adapter Type. Neutrik. Canare. Female XFR 1100 In These offer Installation Cat. No. 773. Figure 28 Model CP650 Exploded View. Disassembly steps can be found in the troubleshooting section of this manual. See.

Chapter 9, section 9.3.2. Installation. Projector 1 Cat. No. 701. Digital Reader Single Projector Notes All shields must be connected to the CFIASSIS of the CP650. This achieves the required RF interference immunity. A metal Chassis ground and circuit Installation. Hearing \. Impaired 2. System. Front Speakers. Surround Speakers Surround EX . Subwoofer Notes This achieves the required RF interference immunity. A metal Chassis ground and circuit Installation Chapter 3. Front Panel and Alignment Overview. This chapter describes the features on the CP650 front panel, along with an overview Continue the Setup Control Panel. Access Door. Opens using the tab on the left Bypass Power Supply Failure. Indicator. Indicates a problem is detected in the bypass Front Panel Display. Displays processor condition, operation Projector Signal Indicators. PI and P2 show which projector’s Displays fader setting. Ranges from 0.0 to Format Buttons. Used to select the format U1 Userdefined during setup. U2 Userdefined during setup. NS Normally Format 60. Nonsync 1, Main Fader Knob . Controls sound level and is used for Select Button. Selects a parameter to change. The change is made by rotating Mute Button . Fades down and fades up the signal Power Supply Button. When this button is illuminated red, the unit is in In bypass mode, the unit is powered by the builtin Figure 31 Front Panel Controls Front Panel and Alignment Overview. FrontPanel Display. L C R Ls Rs SW Bsl Bsr L C R Ls Rs SW Bsl Bsr. Figure 32 Front Panel Display. Daytoday operation of the CP650 is performed through interaction with this display. The 20character, fourline LCD provides a readout of processor condition, operation PC setup software is not used. The examples above show normal displays when the CP650 is in use. The bottom left Each bar will move as a film is Reading from Surround, and Subwoofer channels. If your CP650 contains a Cat. No. 794 Dolby.

Digital Surround EX decoder card, then you will see the additional level displays Ml indicates that the projector 1 motor contact is closed or jumpered motor start The motor running signals are used in the timing of The 0 shown on the bottom right is a display of Dolby Digital film error rate. The first The error rate is a If the error rate is above 8, the CP650 will revert to Level Display. The main fader level is displayed as a twodigit number. Starting from a display of This setting matches the Front Panel and Alignment Overview. Main Fader Knob. Use this knob to adjust the sound level. A fader reading of 7.0 is the nominal correct When the fader knob is rotated between readings 0 and 4.0, the output level changes When the fader knob is rotated between. Fader Level. Figure 33 Fader Characteristic. Projector Signal Indicators. PI and P2 show which projector optical input has been selected.

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