

# *META-SPEED* □

D I G I T A L S E R V O

## Installation and Operations Manual

### Digital Servo Modification Kit for Flying Spot Telecines

*- A unique enhancement to the art of film to videotape transfer-*

Manual Version **3.0**

Serial Number:

Created by the Research and Development Lab of Video Post and Transfer, Inc.®



For Meta-Speed<sup>®</sup> software 1.9X and above. Manual revision 3.0

Revised September, 2001.

Meta-Speed<sup>®</sup> is patent protected.

Video Post & Transfer, Inc.<sup>®</sup> is a registered trademark, and Meta-Speed<sup>®</sup> is a trademark of Video Post & Transfer, Inc.<sup>®</sup>

Cintel, Inc. and Digiscan are registered trademarks. Turbo, URSA, URSA Gold, URSA Diamond, JumpFree, LowSpeed, X-Y Zoom and Varispeed are trademarks of the Cintel International Limited Organization.

Millennium is a registered trademark of ITK Ltd.

Stedi-Film and RTS are trademarks of Stedi-Film Corporation.

Copyright 2001 Video Post & Transfer, Inc.<sup>®</sup> All rights reserved.



# Table Of Contents

## Introduction/Installation

Introduction.....	1
Features.....	2
Design Goals.....	5
Installation Note.....	6
URSA Installation.....	7
MkIIIC and Turbo Installation.....	23
MkIIIB Installation.....	35
Frame Timebase.....	49
Digital Deflection System.....	51
Getting Started.....	53

## Alignment

Velocity DSP Alignment.....	55
Frame Timebase Alignment.....	57
Servo Logic 8M Alignment.....	62

## Software

Software Setups and Operations.....	63
Reprogramming the CTM290 Panel.....	64
Home Menu.....	65
Gate Menu.....	69
Servo Menu.....	76
Setup Menu.....	79

## Detailed Board Descriptions

Frame Timebase (23002/23012).....	83
Velocity DSP (23004).....	86
Gate & System Adapter (23005).....	88
Capstan Servo Control 2 Adapter (23006).....	88
Capstan Servo Control 1/3 Adapter (23008).....	89
Servo Logic 8M (23009).....	89
Phase Adapter 4 (23019).....	90
Supervisor 2 (23021).....	92

# Schematics

Schematic Index.....	93
CTM290 Cable (19005).....	95
SRCP Cable Block Diagram (20001).....	96
Frame Timebase HD (23002).....	97
V40 Supervisor (23003).....	104
Velocity DSP (23004).....	109
Gate & System Adapter (23005).....	116
Capstan Servo Control 2 Adapter (23006).....	117
Capstan Servo Control 1/3 Adapter (23008).....	118
Servo Logic 8M (23009).....	119
Frame Timebase LD (23012).....	121
SRCP2 (23017).....	128
Phase Adapter 4 (23019).....	129
Supervisor 2 (23021).....	136