



CPV | Car paint Vision Inspection System

<i>CONTENT</i>	OPERATOR-TRAINING	MAINTAINER-TRAINING	EXPERT
GENERAL PART	X	X	X
SYSTEM OVERVIEW	X	X	X
MEASUREMENT PRINCIPLE	X	X	X
NETWORK COMPONENTS OVERVIEW IN CELL	X	X	X
INSPECTION SEQUENCE (COMPLETE CELL)	X	X	X
FIELDBUS/ETHERNET COMMUNICATION BASICS	X	X	X
CONVEYOR INFLUENCES (IF LINE-TRACKING SYSTEM)	X	X	X
APPLICATION CONTROL (CPV INSPECTION MASTER)	X	X	X
CPV SW BASICS			X
EDITING AN EXISTING PRODUCT WITH INSPECTION PATHS			X
EDITING THE INSPECTION AREAS / ZONES / WORK AREAS			X
ACQUIRING REFERENCE IMAGES / LOAD ROBOT PATH			X
TEACHING OVERLAYS			X
TEACHING EDGE-DETECTORS			X
ADDING A COLOR			X
EDITING RELEVANCE CLASSIFICATION		X	X
IMPORTANT OTHER SETTINGS		X	X
DATA STRUCTURE (DIRECTORY AND FILE STRUCTURE, LOG FILES, INTERPRETATION OF ERROR MESSAGES, DATA BACKUP)	X	X	X
INTEGRATE DERIVATE			X
IMAGE PROCESSING (CPV INSPECTION MASTER)			
INTRODUCTION TO IMAGE PROCESSING			X
AREA DETECTION TOOL			X
STRIPE DETECTION TOOL			X
CLASSIFICATION PRINCIPLE			X
SENSORS			
SENSOR COMPONENT OVERVIEW	X	X	X
SENSOR ACCESS AND HANDLING (PC NETWORK)	X	X	X
SENSOR / CAMERA CALIBRATION			X
IMPORT / EXPORT / CHANGE SENSOR DESCRIPTION		X	X

Order number	Description	
CPV.01	Operator training	One-day course max. 5 participants
CPV.02	Maintenance training	Two-day course max. 5 participants
CPV.03	Expert Training	Seven-day course max. 5 participants

SENSOR MAINTENANCE BASICS/ CHANGE SENSOR	X	X
ERROR ANALYSIS	X	X
DATA BASE PC		
USING THE DATABASE COMPUTER		
HANDLING THE PDF-REPORT		X
DATA ANALYSIS WITH EPROMI COCKPITS	X	X
ERROR ANALYSIS (E.G. ON DATABASE WRITING)	X	X
BACKUP / RECOVERY OF DATABASE		X
		X
SYSTEM SPECIFIC TRAINING		
OVERVIEW OF RUNNING SYSTEM		
PRACTICING DATA BACKUP	X	X X
PRACTICING ERROR ANALYSIS / SYSTEM RECOVERY / START UP	X	X X
ROBOT CAR AND MAINTENANCE PROGRAMS	X	X X
ROBOT TECHPACKAGE EXPLANATION		X
CHANGE TRIGGERUNIT / SYSTEM PCS		X

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