

The logo for United Medical Maintenance Services (UMMS) is located in the top left corner of a blue vertical bar. It features the letters "UMMS" in a white, sans-serif font, with a white swoosh underline that starts under the "U" and ends under the "S". A small white starburst is positioned above the "U".

United Medical Maintenance Services

Engineering Publications

Pickers PQ Series Micro-controller

Disclaimer: This publication is intended for use by personnel who are trained and qualified to service diagnostic imaging equipment. This publication is not intended to replace any OEM procedures or guidelines for maintenance and troubleshooting. UMMS makes every effort to provide accurate and complete information UMMS provides no warranty, expressed or implied, as to the accuracy, reliability or completeness of this publication and its data. UMMS is not liable and is held harmless for any damages or losses as a result of the content, use, perception, interpretation, and understanding of this publication.

Pickers PQ Series 177282 Micro-controller overview

The micro-controller used on Pickers Q-series scanner controls the characteristics of how each machine operates. The micro-controller chip itself contains the following:

- Systems hardware and peripheral profiles
- Systems option profiles

By using the SHOW_CNF command found in REGULUS, some of the options can be identified and located. Others are not identifiable in our research.

Each time the scanner powers up and boots, this micro-controller runs an internal program and dumps its contents to a location that only systems software knows where to locate. This area contains the keys for all elements that comprise each system. The micro-controller and system software work hand in hand checking and validating against the real time clock of the system CPU and SMB boards as well as the time date keying off the system error log.

Below is a brief synopsis's of the contents programmed to each micro-controller:

<i>Hospital Name</i>	University Hospital
<i>System Serial Num</i>	4120
<i>Gantry Serial Num</i>	4120
<i>Console Serial Num</i>	4120
<i>Software Revision</i>	E
<i>Table Revision</i>	W
<i>Date Programmed</i>	11/14/2001
<i>Diagnostic date</i>	11/14/2002
<i>Site EPROM Rev.</i>	22
<i>English</i>	Language
<i>CT</i>	Modality Type
<i>PQ-5000</i>	Product
5	Array Processor
2	Message Passing Memory
4	Back Projector
2	Display Boards
<i>Rhino5.0</i>	X-Ray Tube
4800	Detectors
<i>CRX-400</i>	X-Ray Generator
<i>ARDAS</i>	Detector
<i>Enabled</i>	Tape Drive Exabyte 8200
<i>N/A</i>	Tape Drive Exabyte 8500
<i>Enabled</i>	Optical Drive (Erase) 5.25 in.
<i>N/A</i>	Floppy Drive 5.25 in.
<i>N/A</i>	Floppy Drive 3.5 in.
<i>Enabled</i>	Software Option MPR
<i>Enabled</i>	Software Option 3D Reconstruction

Disclaimer: This publication is intended for use by personnel who are trained and qualified to service diagnostic imaging equipment. This publication is not intended to replace any OEM procedures or guidelines for maintenance and troubleshooting. UMMS makes every effort to provide accurate and complete information UMMS provides no warranty, expressed or implied, as to the accuracy, reliability or completeness of this publication and its data. UMMS is not liable and is held harmless for any damages or losses as a result of the content, use, perception, interpretation, and understanding of this publication.

<i>Enabled</i>	Software Option RPM/ADS
<i>N/A</i>	Software Option Bone Mineral Analysis
<i>N/A</i>	Software Option Toothpix
<i>Enabled</i>	Software Option Auto Voice
<i>Enabled</i>	Software Option ZAP (Dynamic Volume Scan)
<i>Enabled</i>	Software Option Injector
<i>N/A</i>	Software Option Smart Injector
<i>N/A</i>	Software Option ZAP – VA
<i>N/A</i>	Software Option ZAP 100
<i>N/A</i>	Software Option Instaview
<i>Enabled</i>	Software Option ZAP 70
<i>N/A</i>	Software Option SVIP
<i>Enabled</i>	Software Option MSSI
<i>Enabled</i>	Software Option 2.0 Pitch
<i>Enabled</i>	Software Option QPRO
<i>Enabled</i>	Software Option QPRO2
<i>Enabled</i>	Software Option Ultra Image
<i>N/A</i>	Software Option ZAP 180
<i>N/A</i>	Software Option PINPOINT
<i>N/A</i>	Software Option FALCON
<i>N/A</i>	Software Option SPLIT92
<i>N/A</i>	Software Option CCT
<i>N/A</i>	Software Option SPIRAL PRO
<i>N/A</i>	Software Option SPLIT85
<i>N/A</i>	Communication / Network Hyperlan I
<i>Enabled</i>	Communication / Network Hyperlan II
<i>Enabled</i>	Communication / Network DICOM
<i>N/A</i>	Communication / Network Profile Connect
<i>1</i>	Hyperlan Boards
<i>Digital</i>	Type Of Camera
<i>3M 952</i>	Cameras
<i>PICKER SRV</i>	Diagnostic Level
<i>Disabled</i>	On Demand
<i>N/A</i>	Telepath
<i>Enabled</i>	Frequent airflow warning reporting
<i>4.4 – 4.6</i>	IQ/PQ Software revision enabled
<i>N/A</i>	CCT/SS Hardware

Disclaimer: This publication is intended for use by personnel who are trained and qualified to service diagnostic imaging equipment. This publication is not intended to replace any OEM procedures or guidelines for maintenance and troubleshooting. UMMS makes every effort to provide accurate and complete information UMMS provides no warranty, expressed or implied, as to the accuracy, reliability or completeness of this publication and its data. UMMS is not liable and is held harmless for any damages or losses as a result of the content, use, perception, interpretation, and understanding of this publication.