Revision	Description
1.0.0	Initial Version of document

1. INTRODUCTION

This document describes the protocol for controlling the ReQuest IMC Intelligent Media Client via IR as well as TCP/IP.

2. IR CONTROL

The ReQuest IMC supports IR commands sent to the front IR receiver as well as through the rear 1/8th inch IR jack. The front IR receiver is very sensitive and can be overdriven easily. For this reason, it is recommended that you use the rear input rather than an emitter on the front.

The rear jack is a standard 1/8th inch mono plug with signal at the tip and ground at the sleeve.

A complete list of IR Hex Codes is available for download under the support section at **www.request.com**.

3. TCP/IP CONTROL

The ReQuest IMC supports commands through a TCP/IP connection as well. This allows you to control every aspect of the IMC without the issues that arise when using IR control.

To control the IMC via TCP/IP, simply open a TCP/IP socket to the IP address of the IMC on port **3663**. To locate the IP address of the IMC, select **Settings**, then **Network Settings** on the video output.

TCP/IP COMMANDS

The tables below contain the codes for the available functions to control the IMC using TCP/IP.

BASIC COMMANDS

These commands are the TCP/IP version of those available on the IMC Credit Card remote, with the addition of **Discrete Power ON** and **Discrete Power OFF**

Command	Hex Code	Description
Power Toggle	0Bh 0Eh 5Ch 5Fh 7Fh 7Dh	Toggles soft power
Power ON	0Bh A4h 5Ch F5h 7Fh 7Dh	Turns soft power ON
Power OFF	0Bh 24h 5Ch 75h 7Fh 7Dh	Turns soft power OFF
Home	8Bh 86h DCh D7h 7Fh 7Dh	Returns the IMC to the home screen. If currently watching a DVD, stops movie and displays IMC UI but does not go to the home screen.
Cursor Down	0Bh 06h 5Ch 57h 7Fh 7Dh	Highlights next item below current item
Cursor Left	0Bh ACh 5Ch FDh 7Fh 7Dh	Highlights next item to the left or returns to previous list
Cursor Right	0Bh 2Ch 5Ch 7Dh 7Fh 7Dh	Highlights next item to the right or 'drills in' to an item in a list
Cursor Up	0Bh 86h 5Ch D7h 7Fh 7Dh	Highlights next item above current item
Page Down	29h A4h 7Eh F5h 7Fh 7Dh	Scrolls list 1 full page down
Page Up	29h 0Ch 7Eh 5Dh 7Fh 7Dh	Scrolls list 1 full page up
Jump to Bottom of List	29h 84h 7Eh D5h 7Fh 7Dh	Scrolls list to the bottom
Jump to Top of List	29h 24h 7Eh 75h 7Fh 7Dh	Scrolls list to the top
Enter	ABh 0Eh FCh 5Fh 7Fh 7Dh	Selects an item or performs action of highlighted button
Cancel	0Bh A6h 5Ch F7h 7Fh 7Dh	Returns to previous page or closes a dialog message
Eject	2Bh 2Ch 7Ch 7Dh 7Fh 7Dh	Ejects a disc from the IMC
Play	0Bh AEh 5Ch FFh 7Fh 7Dh	Plays a previously paused or stopped movie or track
Stop	8Bh 0Eh DCh 5Fh 7Fh 7Dh	Stops playback of a movie or track
Pause	8Bh AEh DCh FFh 7Fh 7Dh	Pauses playback of a movie or track
Next Chapter	8Bh 06h DCh 57h 7Fh 7Dh	Skips to the next chapter in a movie
Previous Chapter	2Bh AEh 7Ch FFh 7Fh 7Dh	Skips to the previous chapter in a movie
Fast Forward	2Bh 26h 7Ch 77h 7Fh 7Dh	Fast forwards the current track 5 seconds or increases fast forward rate in a movie
Rewind	0Bh 2Eh 5Ch 7Fh 7Fh 7Dh	Rewinds the current track 5 seconds or increases the rewind rate in a movie
DVD Menu	2Bh 0Eh 7Ch 5Fh 7Fh 7Dh	When playing a DVD, displays the DVD Menu
Angle	8Bh 8Eh DCh DFh 7Fh 7Dh	Changes the angle on DVDs that support this feature
Audio	2Bh 86h 7Ch D7h 7Fh 7Dh	Changes the audio track on DVDs that have multiple audio tracks
Subtitle	ABh 8Eh FCh DFh 7Fh 7Dh	Changes the subtitle display on DVDs that have subtitles
Frame Advance	0Bh 26h 5Ch 77h 7Fh 7Dh	When playing a DVD, advances playback frame by frame

ALPHANUMERIC AND SYMBOL COMMANDS

These commands can be used to enter text into any text entry field, such as searching for a movie.

Command	Hex Code	Command	Hex Code	Command	Hex Code
Space	89h AEh DEh FFh 7Fh 7Dh	Backspace	29h 04h 7Eh 55h 7Fh 7Dh	Symbol '	89h 06h DEh 57h 7Fh 7Dh
Lowercase a	81h 2Eh D6h 7Fh 7Fh 7Dh	Uppercase A	A1h 2Eh F6h 7Fh 7Fh 7Dh	Symbol -	89h 24h DEh 75h 7Fh 7Dh
Lowercase b	81h 8Eh D6h DFh 7Fh 7Dh	Uppercase B	A1h 8Eh F6h DFh 7Fh 7Dh	Symbol !	89h 2Eh DEh 7Fh 7Fh 7Dh
Lowercase c	81h 0Eh D6h 5Fh 7Fh 7Dh	Uppercase C	A1h 0Eh F6h 5Fh 7Fh 7Dh	Symbol "	89h 8Eh DEh DFh 7Fh 7Dh
Lowercase d	81h A6h D6h F7h 7Fh 7Dh	Uppercase D	A1h A6h F6h F7h 7Fh 7Dh	Symbol #	89h 0Eh DEh 5Fh 7Fh 7Dh
Lowercase e	81h 26h D6h 77h 7Fh 7Dh	Uppercase E	A1h 26h F6h 77h 7Fh 7Dh	Symbol $	89h A6h DEh F7h 7Fh 7Dh
Lowercase f	81h 86h D6h D7h 7Fh 7Dh	Uppercase F	A1h 86h F6h D7h 7Fh 7Dh	Symbol %	89h 26h DEh 77h 7Fh 7Dh
Lowercase g	81h 06h D6h 57h 7Fh 7Dh	Uppercase G	A1h 06h F6h 57h 7Fh 7Dh	Symbol &	89h 86h DEh D7h 7Fh 7Dh
Lowercase h	81h ACh D6h FDh 7Fh 7Dh	Uppercase H	A1h ACh F6h FDh 7Fh 7Dh	Symbol (	89h ACh DEh FDh 7Fh 7Dh
Lowercase i	81h 2Ch D6h 7Dh 7Fh 7Dh	Uppercase I	A1h 2Ch F6h 7Dh 7Fh 7Dh	Symbol)	89h 2Ch DEh 7Dh 7Fh 7Dh
Lowercase j	81h 8Ch D6h DDh 7Fh 7Dh	Uppercase J	A1h 8Ch F6h DDh 7Fh 7Dh	Symbol ?	09h 04h 5Eh 55h 7Fh 7Dh
Lowercase k	81h 0Ch D6h 5Dh 7Fh 7Dh	Uppercase K	A1h 0Ch F6h 5Dh 7Fh 7Dh	Symbol @	A1h AEh F6h FFh 7Fh 7Dh
Lowercase l	81h A4h D6h F5h 7Fh 7Dh	Uppercase L	A1h A4h F6h F5h 7Fh 7Dh	Symbol [	21h 0Ch 76h 5Dh 7Fh 7Dh
Lowercase m	81h 24h D6h 75h 7Fh 7Dh	Uppercase M	A1h 24h F6h 75h 7Fh 7Dh	Symbol \	21h A4h 76h F5h 7Fh 7Dh
Lowercase n	81h 84h D6h D5h 7Fh 7Dh	Uppercase N	A1h 84h F6h D5h 7Fh 7Dh	Symbol]	21h 24h 76h 75h 7Fh 7Dh
Lowercase o	81h 04h D6h 55h 7Fh 7Dh	Uppercase O	A1h 04h F6h 55h 7Fh 7Dh	Symbol ^	21h 84h 76h D5h 7Fh 7Dh
Lowercase p	01h AEh 56h FFh 7Fh 7Dh	Uppercase P	21h AEh 76h FFh 7Fh 7Dh	Symbol ;	09h 0Ch 5Eh 5Dh 7Fh 7Dh
Lowercase q	01h 2Eh 56h 7Fh 7Fh 7Dh	Uppercase Q	21h 2Eh 76h 7Fh 7Fh 7Dh	Symbol :	09h 8Ch 5Eh DDh 7Fh 7Dh
Lowercase r	01h 8Eh 56h DFh 7Fh 7Dh	Uppercase R	21h 8Eh 76h DFh 7Fh 7Dh	Symbol |	01h A4h 56h F5h 7Fh 7Dh
Lowercase s	01h 0Eh 56h 5Fh 7Fh 7Dh	Uppercase S	21h 0Eh 76h 5Fh 7Fh 7Dh	Symbol {	01h 0Ch 56h 5Dh 7Fh 7Dh
Lowercase t	01h A6h 56h F7h 7Fh 7Dh	Uppercase T	21h A6h 76h F7h 7Fh 7Dh	Symbol }	01h 24h 56h 75h 7Fh 7Dh
Lowercase u	01h 26h 56h 77h 7Fh 7Dh	Uppercase U	21h 26h 76h 77h 7Fh 7Dh	Symbol ~	01h 84h 56h D5h 7Fh 7Dh
Lowercase v	01h 86h 56h D7h 7Fh 7Dh	Uppercase V	21h 86h 76h D7h 7Fh 7Dh	Symbol +	89h 0Ch DEh 5Dh 7Fh 7Dh
Lowercase w	01h 06h 56h 57h 7Fh 7Dh	Uppercase W	21h 06h 76h 57h 7Fh 7Dh	Symbol <	09h A4h 5Eh F5h 7Fh 7Dh
Lowercase x	01h ACh 56h FDh 7Fh 7Dh	Uppercase X	21h ACh 76h FDh 7Fh 7Dh	Symbol =	09h 24h 5Eh 75h 7Fh 7Dh
Lowercase y	01h 2Ch 56h 7Dh 7Fh 7Dh	Uppercase Y	21h 2Ch 76h 7Dh 7Fh 7Dh	Symbol >	09h 84h 5Eh D5h 7Fh 7Dh
Lowercase z	01h 8Ch 56h DDh 7Fh 7Dh	Uppercase Z	21h 8Ch 76h DDh 7Fh 7Dh	Symbol *	89h 8Ch DEh DDh 7Fh 7Dh
Number 0	09h AEh 5Eh FFh 7Fh 7Dh	Number 5	09h 26h 5Eh 77h 7Fh 7Dh	Symbol ,	89h A4h DEh F5h 7Fh 7Dh
Number 1	09h 2Eh 5Eh 7Fh 7Fh 7Dh	Number 6	09h 86h 5Eh D7h 7Fh 7Dh	Symbol .	89h 84h DEh D5h 7Fh 7Dh
Number 2	09h 8Eh 5Eh DFh 7Fh 7Dh	Number 7	09h 06h 5Eh 57h 7Fh 7Dh	Symbol /	89h 04h DEh 55h 7Fh 7Dh
Number 3	09h 0Eh 5Eh 5Fh 7Fh 7Dh	Number 8	09h ACh 5Eh FDh 7Fh 7Dh	Symbol _	21h 04h 76h 55h 7Fh 7Dh
Number 4	09h A6h 5Eh F7h 7Fh 7Dh	Number 9	09h 2Ch 5Eh 7Dh 7Fh 7Dh	Symbol `	81h AEh D6h FFh 7Fh 7Dh