



## VIVOTEK Product Security Advisory

**Advisory ID:** VVTK-SA-2020-001

**CVE ID:**

CVE-2020-11950 for #1 Remote Command Execution

CVE-2020-11949 for #2 Arbitrary File Download

**First Published:** May 26, 2020

**Last Update:** May 26, 2020

**Status:** Fixed

**Revision:** 1

**Overview:**

Security researcher Mike Manzotti of Dionach Security Ltd. discovered the following vulnerability.

CVE-2020-11950, allows authenticated users to conduct remote command execution via an uploaded customized script.

CVE-2020-11949, allows authenticated users who have access in the same subnet of the VIVOTEK camera to obtain arbitrary files from the camera's local system via testserver.cgi.

**Affected Products:**

Network Camera:

All network camera series using beta firmware prior to XXXXX-VVTK-0XXXX\_Beta2 or official firmware prior to XXXXXX-VVTK-2.2002.xx.01x. Please check below the table for details.

Models	Beta Cyber Firmware	Official Firmware
All models excluding <ul style="list-style-type: none"><li>• FD9x65-A series</li><li>• FD9x87-A series</li><li>• IB9365-A series</li><li>• IB9387-A series</li><li>• IP9164 series</li></ul>	XXXXX-VVTK-0x2xx_Beta2	XXXXXX-VVTK-2.2002.xx.01x or above

FD9x65-A series FD9x87-A series IB9365-A series IB9387-A series IP9164 series	XXXXX-VVTK-0100m_Beta2	XXXXXX-VVTK-2.2002.xx.01x or above
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NVR:

ND/NR series: Not affected.

**Workaround:**

None.

**Solution:**

Network camera: Please refer to below the beta firmware version table for suggestions.

Model	Firmware Version
CC9381-HV	CC9381-VVTK-0223a_Beta2
FD9360-H	FD9360-VVTK-0223a_Beta2
FD9368-HTV	FD9368-VVTK-0223a_Beta2
FD9380-H	FD9380-VVTK-0223a_Beta2
FD9388-HTV	FD9388-VVTK-0223a_Beta2
IB9360-H	IB9360-VVTK-0223a_Beta2
IB9368-HT	IB9368-VVTK-0223a_Beta2
IB9380-H	IB9380-VVTK-0223a_Beta2
IB9388-HT	IB9388-VVTK-0223a_Beta2
IT9360-H	IT9360-VVTK-0223a_Beta2
IT9380-H	IT9380-VVTK-0223a_Beta2
IT9388-HT	IT9388-VVTK-0223a_Beta2
MD9560-DH	MD9560-VVTK-0223a_Beta2
MD9560-H	MD9560-VVTK-0223a_Beta2
FD9366-HV	FD9366-VVTK-0223a_Beta2
FD9166-HN	FD9166-VVTK-0223a_Beta2
FE9380-HV	FE9380-VVTK-0223a_Beta2
CC8160	CC8160-VVTK-0122a_Beta2
CC8160(HS)	CC8160-VVTK-0122a_Beta2
CC8370-HV	CC8370-VVTK-0222a_Beta2
CC8371-HV	CC8371-VVTK-0122a_Beta2
CD8371-HNTV	CD8371-VVTK-0122a_Beta2
CD8371-HNVF2	CD8371-VVTK-0122a_Beta2

FD8166A	FD8166-VVTK-0222a_Beta2
FD8166A-N	FD8166-VVTK-0222a_Beta2
FD8167A	FD8167A-VVTK-0222a_Beta2
FD8167A-S	FD8167A-VVTK-0222a_Beta2
FD8169A	FD8169A-VVTK-0222a_Beta2
FD8169A-S	FD8169A-VVTK-0222a_Beta2
FD8367A-V	FD8367A-VVTK-0222a_Beta2
FD8369A-V	FD8369A-VVTK-0222a_Beta2
FD816BA-HF2	FD816BA-VVTK-0122a_Beta2
FD836BA-HVF2	FD836BA-VVTK-0122a_Beta2
FD836BA-HTV	FD836BA-VVTK-0122a_Beta2
FD836BA-EHVF2	FD836BA-VVTK-0122a_Beta2
FD816BA-HT	FD816BA-VVTK-0122a_Beta2
FD836BA-EHTV	FD836BA-VVTK-0122a_Beta2
IB836BA-EHF3	IB836BA-VVTK-0122a_Beta2
IB836BA-EHT	IB836BA-VVTK-0122a_Beta2
IB836BA-HF3	IB836BA-VVTK-0122a_Beta2
IB836BA-HT	IB836BA-VVTK-0122a_Beta2
FD816B-HF2	FD816B-VVTK-0122a_Beta2
FD816B-HT	FD816B-VVTK-0122a_Beta2
FD836B-EHTV	FD836B-VVTK-0122a_Beta2
FD836B-EHVF2	FD836B-VVTK-0122a_Beta2
FD836B-HTV	FD836B-VVTK-0122a_Beta2
FD836B-HVF2	FD836B-VVTK-0122a_Beta2
FD836B-EHTV	FD836B-VVTK-0122a_Beta2
FD836B-EHVF2	FD836B-VVTK-0122a_Beta2
FD836B-HTV	FD836B-VVTK-0122a_Beta2
FD836B-HVF2	FD836B-VVTK-0122a_Beta2
IB836B-EHF3	IB836B-VVTK-0122a_Beta2
IB836B-EHT	IB836B-VVTK-0122a_Beta2
IB836B-HF3	IB836B-VVTK-0122a_Beta2
IB836B-HRF3	IB836B-VVTK-0122a_Beta2
IB836B-HT	IB836B-VVTK-0122a_Beta2
FD816CA-HF2	FD816CA-VVTK-0122a_Beta2
FD816C-HF2	FD816C-VVTK-0222a_Beta2
FE8182	FE8182-VVTK-0222a_Beta2
FD8182-F1	FD8182-VVTK-0122a_Beta2
FD8182-F2	FD8182-VVTK-0122a_Beta2

FD8182-T	FD8182-VVTK-0122a_Beta2
FD8382-ETV	FD8382-VVTK-0122a_Beta2
FD8382-EVF2	FD8382-VVTK-0122a_Beta2
FD8382-TV	FD8382-VVTK-0122a_Beta2
FD8382-VF2	FD8382-VVTK-0122a_Beta2
IB8382-EF3	IB8382-VVTK-0122a_Beta2
IB8382-ET	IB8382-VVTK-0122a_Beta2
IB8382-F3	IB8382-VVTK-0122a_Beta2
IB8382-RF3	IB8382-VVTK-0222a_Beta2
IB8382-RT	IB8382-VVTK-0122a_Beta2
IB8382-T	IB8382-VVTK-0122a_Beta2
FD8366-V	FD8366-VVTK-0122a_Beta2
IB8367A	IB8367A-VVTK-0222a_Beta2
IB8369A	IB8369A-VVTK-0222a_Beta2
IP8166	IP8166-VVTK-0222a_Beta2
MD8563-DEH	MD8563-VVTK-0122a_Beta2
MD8563-EH	MD8563-VVTK-0122a_Beta2
MD8564-EH	MD8564-VVTK-0122a_Beta2
MD8565-N	MD8565-VVTK-0122a_Beta2
VC8101	VC8101-VVTK-0122a_Beta2
VS8100-v2	VS8100-V2-VVTK-0122a_Beta2
IP8160	IP8160-VVTK-0122a_Beta2
IP8160-W	IP8160-W-VVTK-0122a_Beta2
IB8360	IB8360-VVTK-0122a_Beta2
IB8360-W	IB8360-W-VVTK-0122a_Beta2
IP9171-HP	IP9171-VVTK-0122b_Beta2
IP9181-H	IP9181-VVTK-0122b_Beta2
FD9371-(E)HTV	FD9371-VVTK-0122b_Beta2
FD9381-(E)HTV	FD9381-VVTK-0122b_Beta2
IB9371-(E)HT	IB9371-VVTK-0122b_Beta2
IB9381-(E)HT	IB9381-VVTK-0122b_Beta2
FD9171-HT	FD9171-VVTK-0122b_Beta2
FD9181-HT	FD9181-VVTK-0122b_Beta2
FE9181-H	FE9181-VVTK-0122b_Beta2
FE9182-H	FE9182-VVTK-0122b_Beta2
FE9381-EHV	FE9381-VVTK-0122b_Beta2
FE9382-EHV	FE9382-VVTK-0122b_Beta2
FE9180-H	FE9180-VVTK-0122b_Beta2

FE9582-EHNV	FE9582-VVTK-0122b_Beta2
SD9161-H	SD9161-H-VVTK-0122b_Beta2
SD9361-EHL	SD9361-VVTK-0122b_Beta2
SD9362-EHL	SD9362-VVTK-0122b_Beta2
SD9362-EH	SD9362-VVTK-0122b_Beta2
SD9363-EHL	SD9363-VVTK-0122b_Beta2
SD9364-EH	SD9364-VVTK-0122b_Beta2
SD9364-EHL	SD9364-VVTK-0122b_Beta2
SD9363-EHL-v2	SD9363_v2-VVTK-0122b_Beta2
SD9364-EHL-v2	SD9364_v2-VVTK-0122b_Beta2
SD9362-EH-v2	SD9362_v2-VVTK-0122b_Beta2
SD9364-EH-v2	SD9364_v2-VVTK-0122b_Beta2
SD9366-EH-v2	SD9366_v2-VVTK-0122b_Beta2
SD9366-EHL	SD9366-VVTK-0122b_Beta2
SD9366-EH	SD9366-VVTK-0122b_Beta2
SD9365-EHL	SD9365-VVTK-0122b_Beta2
IZ9361-EH	IZ9361-VVTK-0122b_Beta2
FD9187-H	FD9187-VVTK-0121d_Beta2
FD9187-HT	FD9187-VVTK-0121d_Beta2
FD9387-EHTV	FD9387-VVTK-0121d_Beta2
FD9387-EHV	FD9387-VVTK-0121d_Beta2
FD9387-HTV	FD9387-VVTK-0121d_Beta2
FD9387-HV	FD9387-VVTK-0121d_Beta2
IB9387-EH	IB9387-VVTK-0121d_Beta2
IB9387-EHT	IB9387-VVTK-0121d_Beta2
IB9387-H	IB9387-VVTK-0121d_Beta2
IB9387-HT	IB9387-VVTK-0121d_Beta2
FD9189-H	FD9189-VVTK-0121d_Beta2
FD9189-HM	FD9189-VVTK-0121d_Beta2
FD9189-HT	FD9189-VVTK-0121d_Beta2
FD9389-HV	FD9389-VVTK-0121d_Beta2
FD9389-HMV	FD9389-VVTK-0121d_Beta2
FD9389-HTV	FD9389-VVTK-0121d_Beta2
FD9389-EHMV	FD9389-VVTK-0121d_Beta2
FD9389-EHTV	FD9389-VVTK-0121d_Beta2
FD9389-EHV	FD9389-VVTK-0121d_Beta2
IB9389-EH	IB9389-VVTK-0121d_Beta2
IB9389-EHM	IB9389-VVTK-0121d_Beta2

IB9389-EHT	IB9389-VVTK-0121d_Beta2
IB9389-H	IB9389-VVTK-0121d_Beta2
IB9389-HM	IB9389-VVTK-0121d_Beta2
IB9389-HT	IB9389-VVTK-0121d_Beta2
FD9165-HT	FD9165-VVTK-0121d_Beta2
FD9365-EHTV	FD9365-VVTK-0121d_Beta2
FD9365-HTV	FD9365-VVTK-0121d_Beta2
FD9365-HTVL	FD9365-VVTK-0121d_Beta2
IB9365-HT	IB9365-VVTK-0121d_Beta2
IB9365-EHT	IB9365-VVTK-0121d_Beta2
IP9165-HP	IP9165-VVTK-0121d_Beta2
IP9165-HT	IP9165-VVTK-0121d_Beta2
IP9165-LPC	IP9165-VVTK-0121d_Beta2
IP9165-LPC(i-CS Kit)	IP9165-VVTK-0121d_Beta2
FD9391-EHTV	FD9391-VVTK-0121d_Beta2
FE9191	FE9191-VVTK-0121d_Beta2
IP9191-HP	IP9191-VVTK-0121d_Beta2
IP9191-HT	IP9191-VVTK-0121d_Beta2
FE9391-EV	FE9391-VVTK-0121d_Beta2
IB9391-EHT	IB9391-VVTK-0121d_Beta2
IP9172-LPC	IP9172-VVTK-0121d_Beta2
IT9389-H	IT9389-VVTK-0121d_Beta2
IT9389-HT	IT9389-VVTK-0121d_Beta2
MD9561-H	MD9561-VVTK-0121d_Beta2
MD9581-H	MD9581-VVTK-0121d_Beta2
MS9390-HV	MS9390-VVTK-0121d_Beta2
TB9330-E	TB9330-VVTK-0121d_Beta2
TB9331-E	TB9331-VVTK-0121d_Beta2
SD9374-EHL(X)	SD9374-VVTK-0122a_Beta2
FD9167-H	FD9167-VVTK-0122a_Beta2
FD9167-HT	FD9167-VVTK-0122a_Beta2
FD9367-EHTV	FD9367-VVTK-0122a_Beta2
FD9367-HTV	FD9367-VVTK-0122a_Beta2
FD9367-HV	FD9367-VVTK-0122a_Beta2
FD9367-HTV(EPOC)	FD9367-VVTK-0122a_Beta2
IB9367-EH	IB9367-VVTK-0122a_Beta2
IB9367-EHT	IB9367-VVTK-0122a_Beta2
IB9367-H	IB9367-VVTK-0122a_Beta2

IB9367-HT	IB9367-VVTK-0122a_Beta2
IP9167-HP	IP9167-VVTK-0122a_Beta2
IP9167-HT (12~40mm)	IP9167-VVTK-0122a_Beta2
IP9167-HT (2.8~10mm)	IP9167-VVTK-0122a_Beta2
MA9321-EHTV	MA9321-VVTK-0122a_Beta2
MS9321-EHV	MS9321-VVTK-0122a_Beta2
MA9322-EHTV	MA9322-VVTK-0122a_Beta2
FD8177-H	FD8177-VVTK-0122a_Beta2
FD8377-HV	FD8377-VVTK-0122a_Beta2
FD8177-H	FD8177-VVTK-0122a_Beta2
FD8377-HV	FD8377-VVTK-0122a_Beta2
FD8177-HT	FD8177-T-VVTK-0122a_Beta2
FD8377-EHTV	FD8377-T-VVTK-0122a_Beta2
FD8377-HTV	FD8377-T-VVTK-0122a_Beta2
FD8179-H	FD8179-VVTK-0122a_Beta2
FD8379-HV	FD8379-VVTK-0122a_Beta2
IB8377-H	IB8377-H-VVTK-0122a_Beta2
IB8379-H	IB8379-H-VVTK-0122a_Beta2
IB8377-HT	IB8377-VVTK-0122a_Beta2
IB8377-EHT	IB8377-VVTK-0122a_Beta2
FD9165-HT-A	FD9165A-VVTK-0100m_Beta2
FD9365-HTV-A	FD9365A-VVTK-0100m_Beta2
FD9365-EHTV-A	FD9365A-VVTK-0100m_Beta2
FD9187-HT-A	FD9187A-VVTK-0100m_Beta2
FD9387-HTV-A	FD9387A-VVTK-0100m_Beta2
FD9387-EHTV-A	FD9387A-VVTK-0100m_Beta2
IB9365-EHT-A	IB9365A-VVTK-0100m_Beta2
IB9365-HT-A	IB9365A-VVTK-0100m_Beta2
IB9387-EHT-A	IB9387A-VVTK-0100m_Beta2
IB9387-HT-A	IB9387A-VVTK-0100m_Beta2
IP9164-HT	IP9164-VVTK-0100m_Beta2
IP9164-LPC	IP9164-VVTK-0100m_Beta2

NVR:

ND/NR series: Not affected.

**Revision History:**

Revision 1/ May 26, 2020/ Initial release